



## DEVELOPMENT PLAN AND DESIGN REVIEW APPLICATION

**Covid-19 Submittal Protocol:** Please submit complete applications via email to [CPCinfo@nola.gov](mailto:CPCinfo@nola.gov). Applicants without the ability to submit via email should contact (504) 658-7100 to make alternative arrangements. Incomplete applications will not be accepted and will be returned to the applicant. Review time depends on the complexity of the project and can take up to 90 days.

Type of application: ☒ Design Review ☐ Interim Zoning Districts Appeal ☐ Moratorium Appeal

Property Location 1008 North Peters Street, New Orleans, LA 70116

### APPLICANT INFORMATION

Applicant Identity: ☐ Property Owner ☒ Agent

Applicant Name Brandon Adams

Applicant Address 2525 Burgundy Street

City New Orleans State LA Zip 70117

Applicant Contact Number 251 648-8022 Email badams@e-perez.com

### PROPERTY OWNER INFORMATION

SAME AS ABOVE ☐

Property Owner Name French Market Corporation

Property Owner Address 1008 North Peters Street, 3rd Floor

City New Orleans State LA Zip 70116

Property Owner Contact Number 504 636-6400 Email LTAlley@frenchmarket.org

### PROJECT DESCRIPTION

The project consists of improvements to the FMC dumpster area located adjacent to 1008 North Peters Street. Work includes demolition of concrete pavement, a section of brick wall and a steel double gate, and the removal of the existing grease trap and area drain. New work includes new concrete pavement, new brick wall section, new steel gates, new plumbing including a new grease trap, a new area drain, a tankless water heater, hose bibbs, a mop sink, new gas and water lines and new drainage pipes. Electrical work is included for a relocated area light fixture, the water heater and electric gate access control.

### REASON FOR REVIEW (REQUIRED FOR DESIGN REVIEW)

#### Design Overlay District Review

- ☐ Character Preservation Corridor
- ☐ Riverfront Design Overlay
- ☐ Enhancement Corridor
- ☐ Corridor Transformation
- ☐ Greenway Corridor
- ☐ Others as required

#### Non-Design Overlay District Review

- ☐ Development over 40,000 sf
- ☐ Public Market
- ☐ Parking Lots with over 10 spaces or loading zones
- ☐ Wireless Antenna/Tower
- ☐ Educational Facility

- ☐ Mural Reviews
- ☐ Electric Utility Substations and Transmission Lines
- ☐ CBD FAR Bonus
- ☐ Changes to Approved Plans
- ☒ DAC Review of Public Projects
- ☐ Others as required

### ADDITIONAL INFORMATION

Current Use Dumpster Yard

Proposed Use Dumpster Yard

Square Number \_\_\_\_\_ Lot Number \_\_\_\_\_ Permeable Open Space (sf) 0

New Development? Yes ☐ No ☒ Addition? Yes ☐ No ☒ Tenant Width \_\_\_\_\_

Existing Structure(s)? Yes ☒ No ☐ Renovations? Yes ☒ No ☐ Building Width \_\_\_\_\_

Change in Use? Yes ☐ No ☒ Existing Signs? Yes ☐ No ☒ Lot Width (sf) 31'-6"

New Sign(s)? Yes ☐ No ☒ Lot Area (sf) 1,600 sf Building Area (sf) \_\_\_\_\_

# North Peters Street Dumpster Area Improvements

1008 North Peters Street New Orleans, Louisiana, 70116



## CONSTRUCTION DOCUMENTS

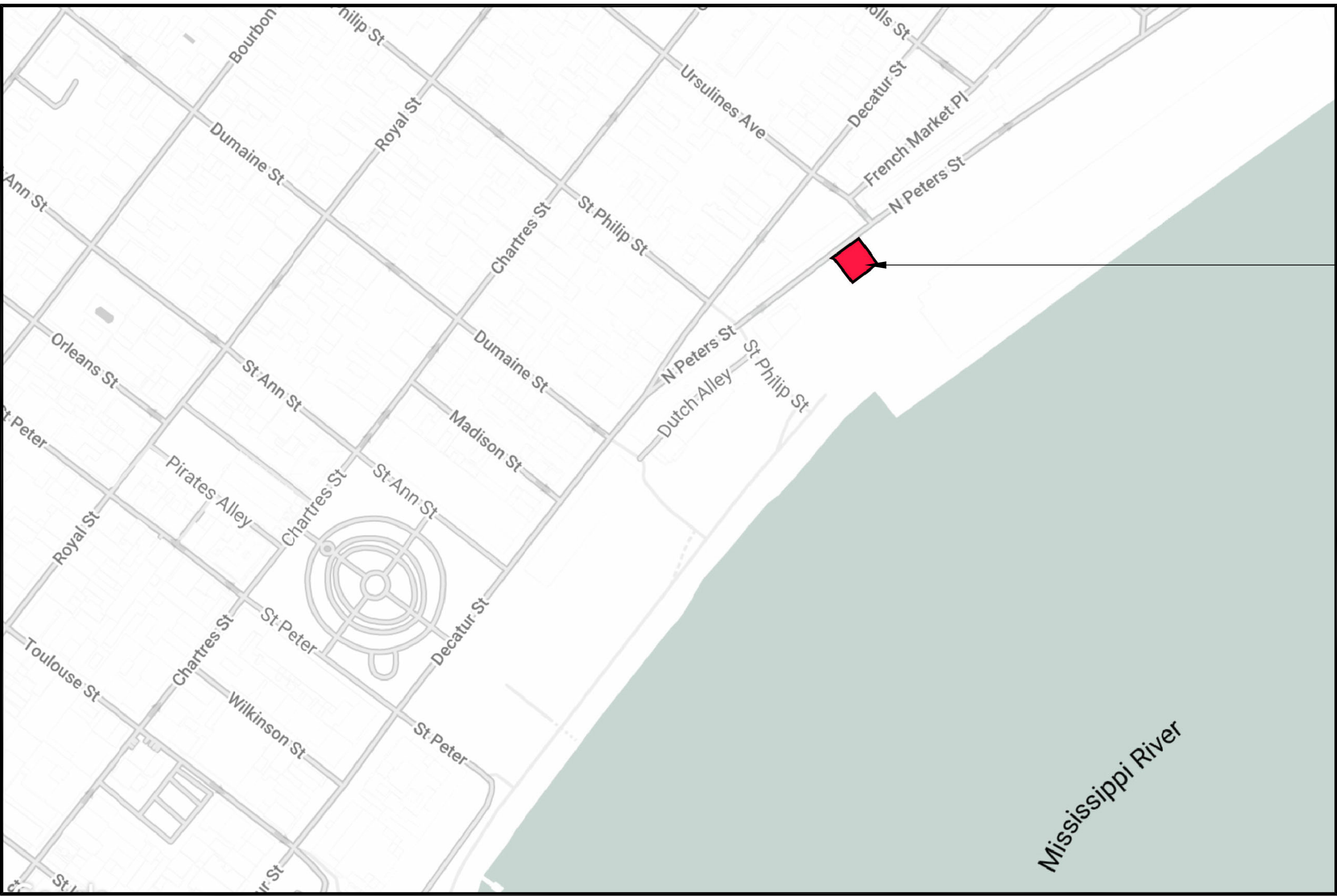
JANUARY 4, 2021

### List of Drawings

00	COVER	
	<u>Site Work</u>	
K-1	SURVEY	
L-1	DEMOLITION PLAN	
L-2	LAYOUT PLAN AND CURB DETAIL	
L-3	GRADING PLAN	
L-4	NEW GATE DETAILS	
L-5	PAVEMENT, POST & BOLLARD DETAILS	
L-6	BRICK WALL DETAILS	
		<u>PLUMBING</u>
		P-0 PLUMBING NOTES, ABBREVIATIONS, & SCHEDULES
		P-1 PLUMBING SPECIFICATIONS
		P-2 PLUMBING SPECIFICATIONS
		P-3 PLUMBING PLAN
		P-4 PLUMBING DETAILS
		<u>ELECTRICAL</u>
		E-0 ELECTRICAL SPECIFICATIONS AND NOTES
		E-1 ELECTRICAL DEMOLITION PLAN
		E-2 ELECTRICAL NEW WORK PLAN

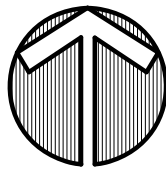
### GENERAL NOTES

1. BASE MAP IS CREATED FROM BATTURE ENGINEERING AND LAND SURVEYORS DATED 9-4-2019;THIS SURVEY IS PROVIDED AS INFORMATION ONLY AND THE CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO COMMENCING ANY WORK.
2. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL ON-SITE AND ADJACENT UTILITIES AND TAKE NECESSARY PRECAUTIONS TO PROTECT ALL UTILITIES FROM DAMAGE. CONTRACTOR SHALL BEAR THE COST OF REPAIR OF ANY UTILITY DAMAGE DURING CONSTRUCTION.
3. CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO PROTECT PERSONS AND PROPERTY DURING CONSTRUCTION INCLUDING BUT NOT LIMITED TO PROVIDING CONSTRUCTION FENCING AND SIGNAGE.
4. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, REGULATIONS, AND THE HIGHEST CONSTRUCTION STANDARDS.
5. IN THE CASE OF ANY DISCREPANCIES BETWEEN PLANS, SPECIFICATIONS, CODES, ORDINANCES AND REQUIREMENTS, THE HIGHER STANDARD SHALL GOVERN.
6. THE CONTRACTOR SHALL APPLY FOR AND PAY FOR ALL NECESSARY PERMITS AND FEES.
7. THE JOB SITE SHALL BE MAINTAINED CLEAN AND FREE FROM DEBRIS DURING CONSTRUCTION.
8. THE PROJECT SHALL BE WARRANTED FOR A MINIMUM PERIOD OF ONE YEAR AFTER THE DATE OF FINAL ACCEPTANCE FOR DEFECTS DUE TO NONCOMPLIANCE WITH BUILDING STANDARDS, AND DEFECTS DUE TO MATERIALS AND/OR WORKMANSHIP. THE CONTRACTOR SHALL DILIGENTLY AND IN A TIMELY MANNER REMEDY ALL DEFECTS AT NO ADDITIONAL COST TO THE OWNER.



PROJECT SITE

### LOCATION MAP



NORTH

NOT TO SCALE

#### OWNER

FRENCH MARKET CORPORATION  
1008 NORTH PETERS STREET, 3RD FLOOR  
NEW ORLEANS, LA 70116  
504-636-6400

INTERIM EXECUTIVE DIRECTOR: LESLIE ALLEY

#### ARCHITECT

PEREZ, A PROFESSIONAL CORPORATION  
2525 BURGUNDY STREET  
NEW ORLEANS, LA 70117

#### MEP ENGINEERS

MOSES ENGINEERS  
909 POYDRAS STREET, SUITE 2150  
NEW ORLEANS, LA  
70112

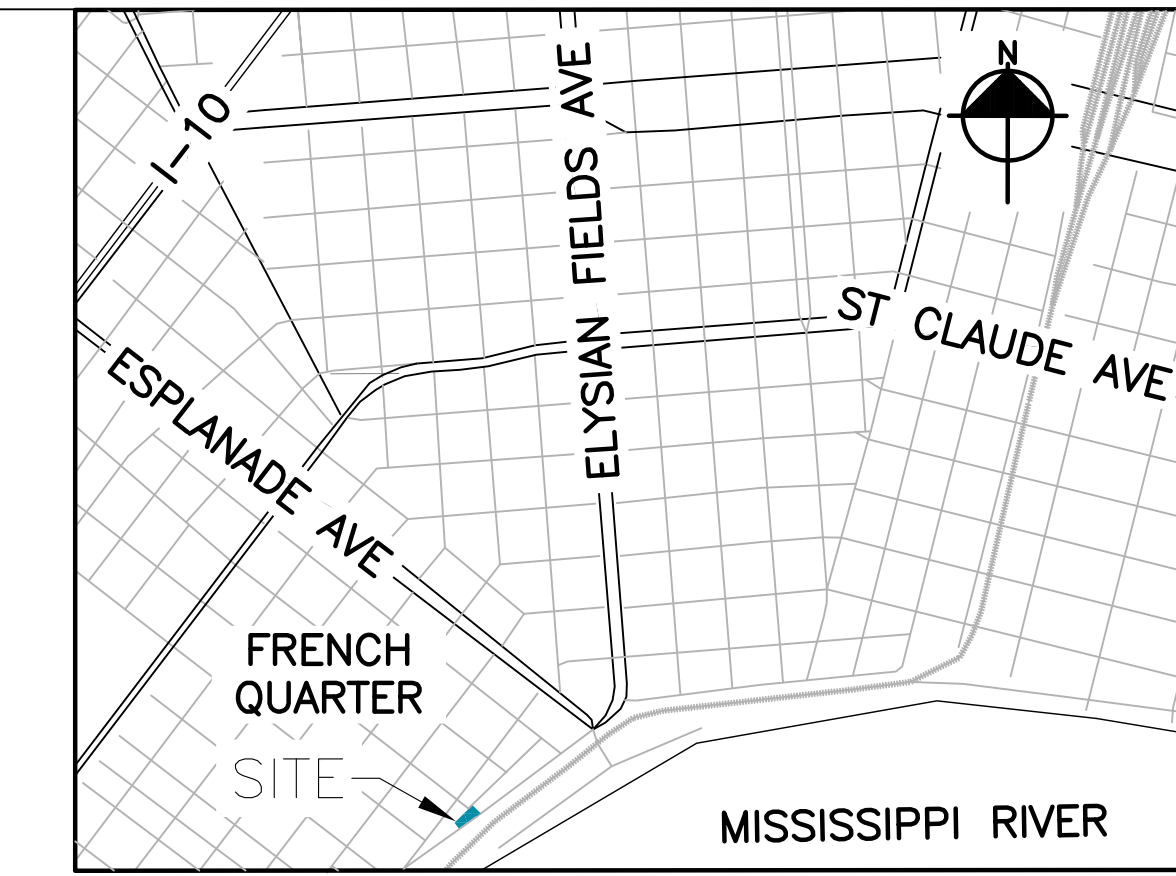
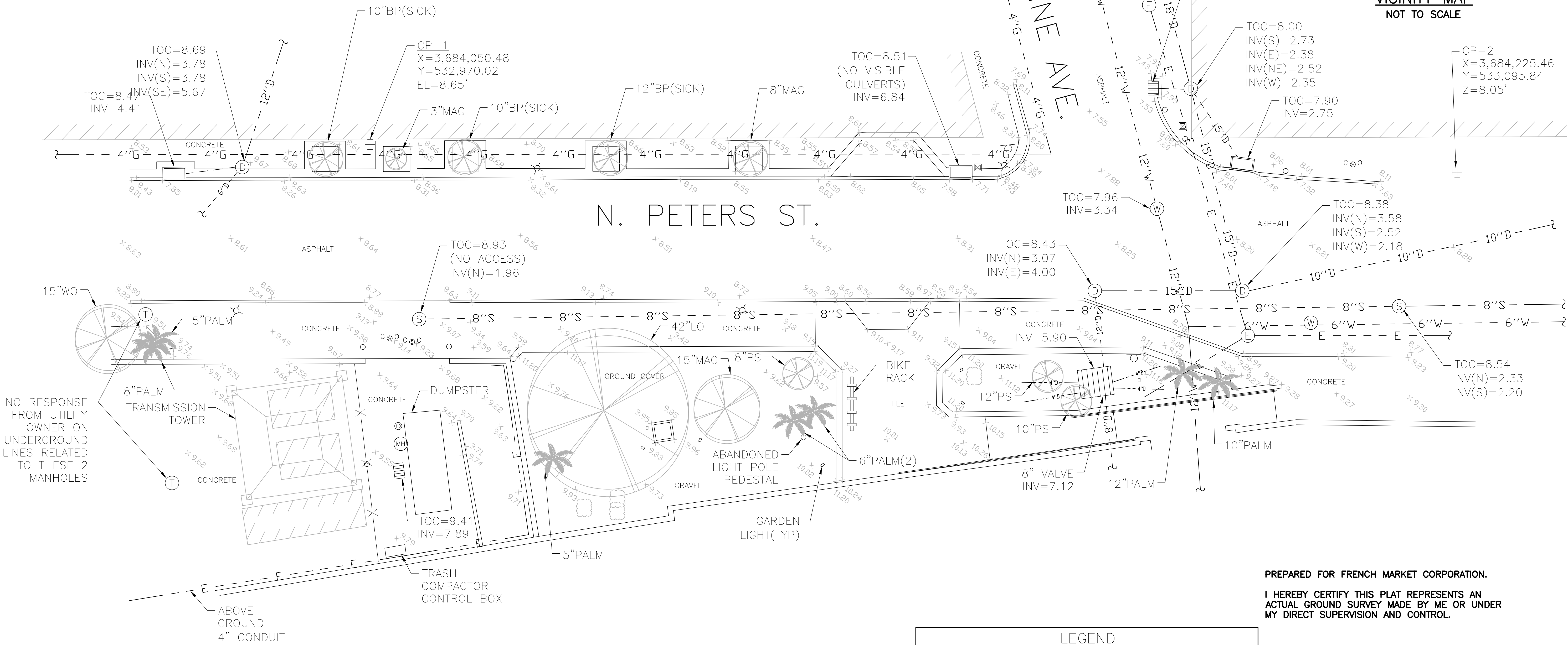
#### STRUCTURAL ENGINEERS

MORPHY MAKOFKY, INC.  
336 N. JEFFERSON DAVIS PARKWAY  
NEW ORLEANS, LA  
70119



TOPOGRAPHIC SURVEY  
OF A PORTION OF SQUARE 11  
SECOND DISTRICT  
ORLEANS PARISH, LOUISIANA

- NOTES:
1. THE LOCATIONS OF UNDERGROUND AND OTHER NONVISIBLE UTILITIES SHOWN HEREON HAVE BEEN PLOTTED BASED UPON DATA EITHER FURNISHED BY THE AGENCIES CONTROLLING SUCH DATA AND/OR OBTAINED FROM RECORDS MADE AVAILABLE TO US BY THE AGENCIES CONTROLLING SUCH RECORDS. WHERE FOUND, THE SURFACE FEATURES OF UTILITIES ARE SHOWN. THE ACTUAL NONVISIBLE LOCATIONS MAY VARY FROM THOSE SHOWN HEREON. EACH AGENCY SHOULD BE CONTACTED RELATIVE TO THE PRECISE LOCATION OF ITS UNDERGROUND INSTALLATIONS PRIOR TO ANY RELIANCE UPON THE ACCURACY OF SUCH LOCATIONS SHOWN HEREON. PRIOR TO EXCAVATION AND DIGGING CALL LA. ONE CALL. (1-800-272-3020).
  2. NO TITLE RESEARCH OR UTILITY SERVITUDE RESEARCH WAS PERFORMED BY THE SURVEYOR.
  3. AS PER FLOOD INSURANCE RATE MAP, COMMUNITY-PANEL NUMBER 22071C0217F, EFFECTIVE DATE SEPTEMBER 30, 2016, THE SITE IS IN ZONE X (NO FLOOD ZONE).
  4. ELEVATIONS AND BEARINGS SHOWN ARE BASED ON GPS MEASUREMENTS, LSU GULF NET, VRS, NORTH AMERICAN DATUM (1983) LAMBERT CONFORMAL CONIC PROJECTION, LOUISIANA SOUTH ZONE, STATE PLANE COORDINATE SYSTEM, US SURVEY FEET, NAVD88.
  5. SOME FEATURES NOT DRAWN TO SCALE FOR CLARITY.



Perez

ARCHITECTURE  
PLANNING  
INTERIORS  
LANDSCAPE  
CONSTRUCTION  
DEVELOPMENT


























PEREZ  
A PROFESSIONAL CORPORATION  
2525 BURGUNDY STREET  
NEW ORLEANS, LA 70117  
WWW.PEREZ.COM

North Peters Street Dumpster Area Improvements

New Orleans, Louisiana 70116

Construction Documents

**BATTURE** LLC  
engineers + land surveyors  
5110 FRERET ST, NEW ORLEANS, LA 70115  
PH 504-533-8644  
FAX 504-336-2272  
INFO@BATTURE-ENG.COM

LEGEND					
	- LIGHT POLE		- SIGN, POLE MOUNTED		- OVERHEAD ELEC.
	- POWER POLE		- SPOT ELEVATION		- (SIZE) D - DRAIN LINE
	- SEWER MANHOLE		- CROSS FOUND		- UG TELEPHONE
	- SEWER CLEANOUT		- WATER MANHOLE		- (SIZE) S - SEWER LINE
	- DRAIN MANHOLE		- CATCH BASIN		- (SIZE) G - GAS LINE
	- DROP INLET, SQUARE		- TEL JB		- (SIZE) W - WATER LINE
	- ELECTRIC MANHOLE		- TRASH CAN		- BUILDING
	- TELEPHONE MANHOLE		- BUSH		- TREE
	- POST				

PREPARED FOR FRENCH MARKET CORPORATION.

I HEREBY CERTIFY THIS PLAT REPRESENTS AN  
ACTUAL GROUND SURVEY MADE BY ME OR UNDER  
MY DIRECT SUPERVISION AND CONTROL.

ROBERT MORA PE, PLS  
PLS #5042  
SEPTEMBER 04, 2019  
(504) 533-8644

DATE: 1/4/2021  
PROJECT NO.: 01-14-1034-05

REVISIONS:		
No.	Date	Description

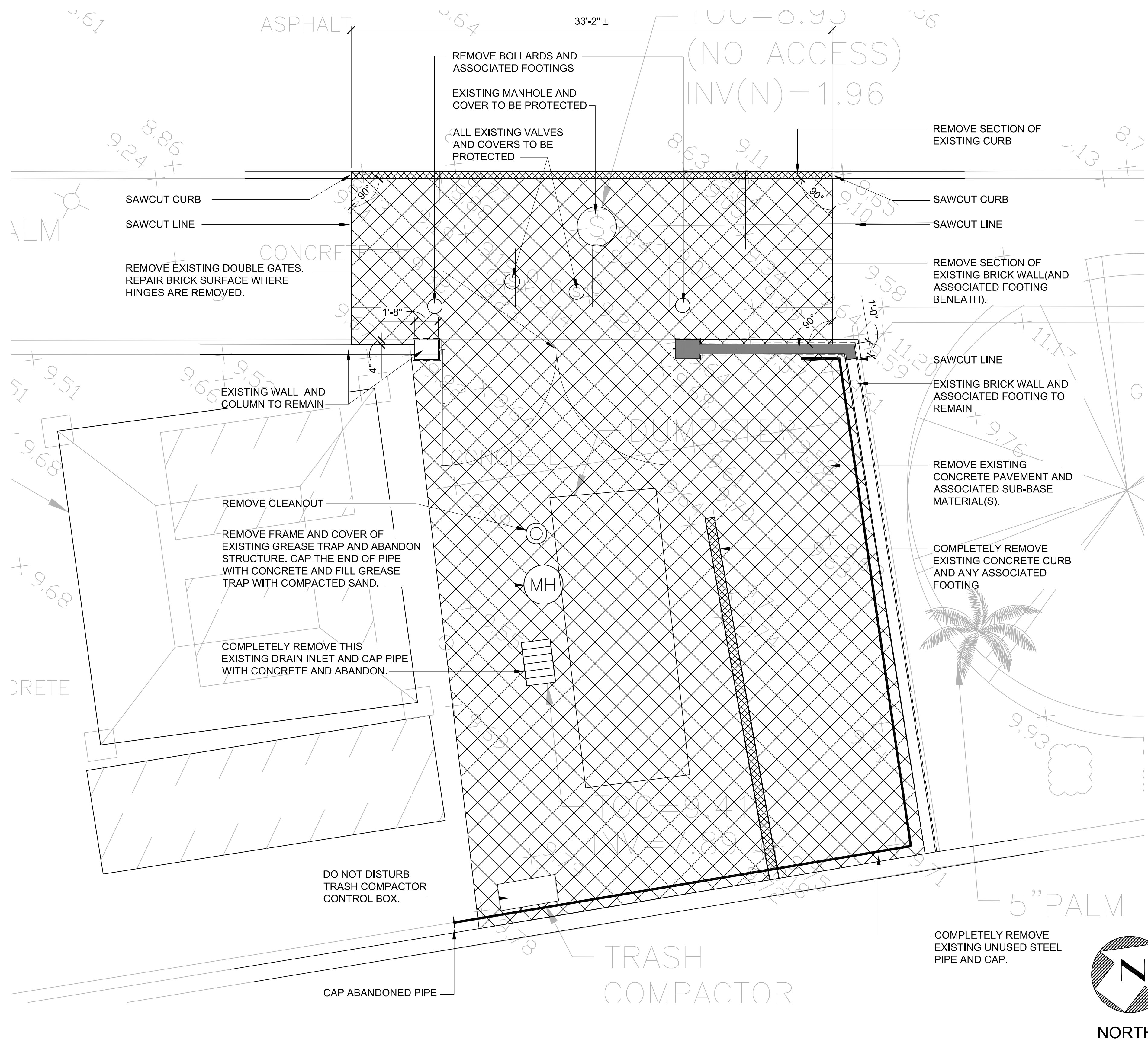
DRAWN BY:  
CHECKED BY:  
SHEET TITLE

SURVEY

SHEET NO

K-1





DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

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ARCHITECTURE  
PLANNING  
INTERIORS  
LANDSCAPE  
CONSTRUCTION  
DEVELOPMENT

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A PROFESSIONAL CORPORATION  
2525 BURGUNDY STREET  
NEW ORLEANS, LA 70117  
WWW.E-PEREZ.COM



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No.	Date	Description

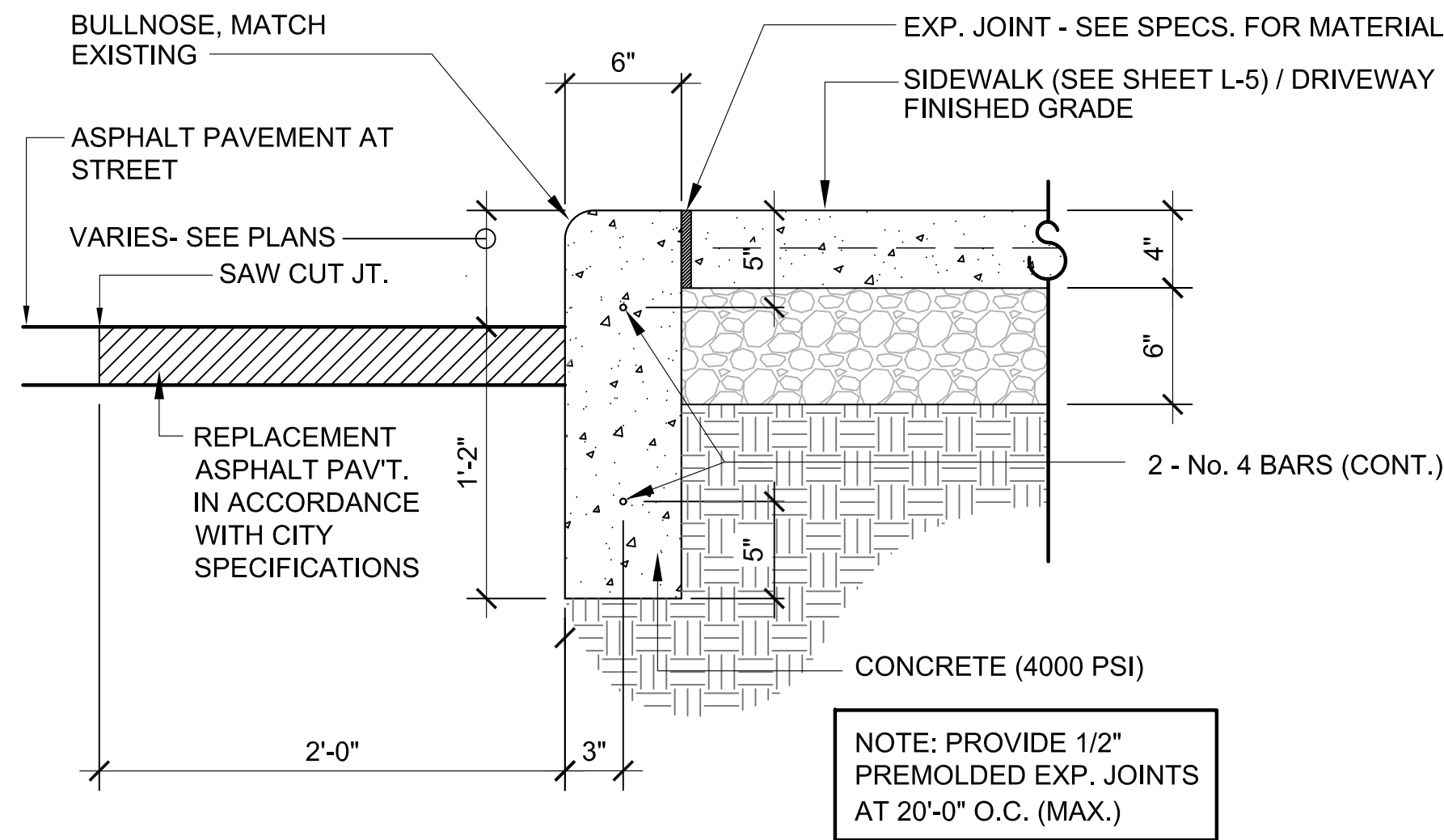
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CHECKED BY:  
SHEET TITLE

DEMOLITION  
PLAN

SHEET NO

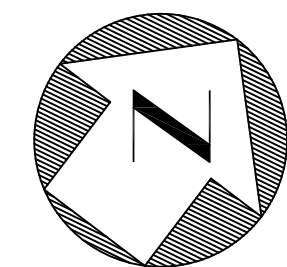
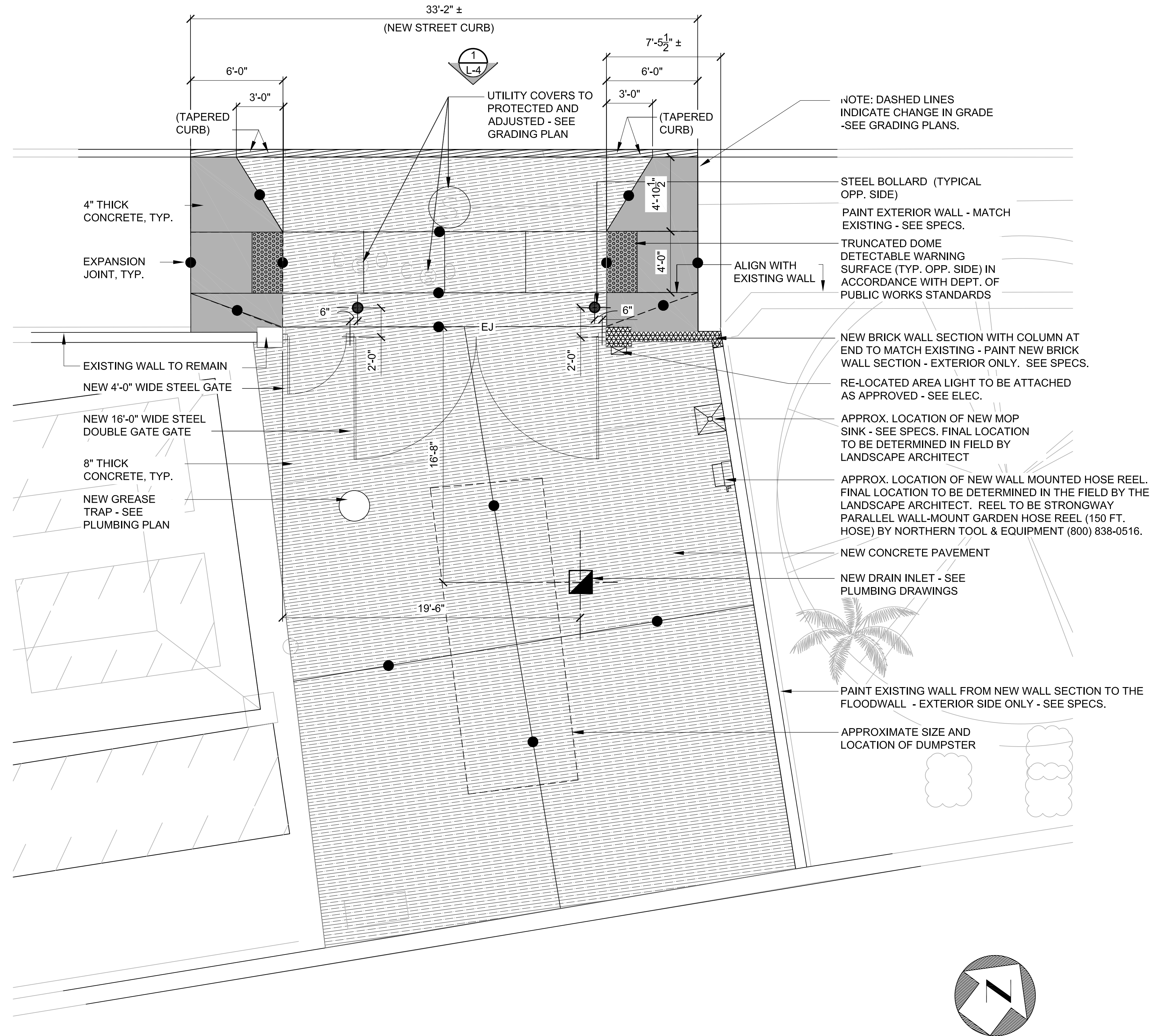
L-1





CONCRETE CURB DETAIL

SCALE: 1 1/2" = 1'-0"



NORTH

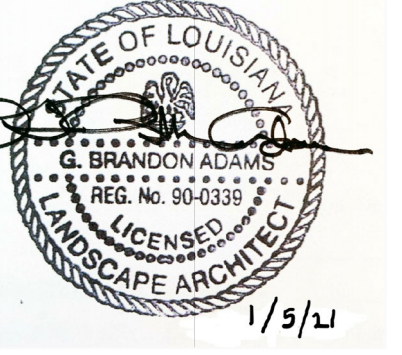
LAYOUT PLAN

SCALE: 1/4" = 1'-0"

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ARCHITECTURE  
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LANDSCAPE  
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DRAWN BY: BA / JL  
CHECKED BY:

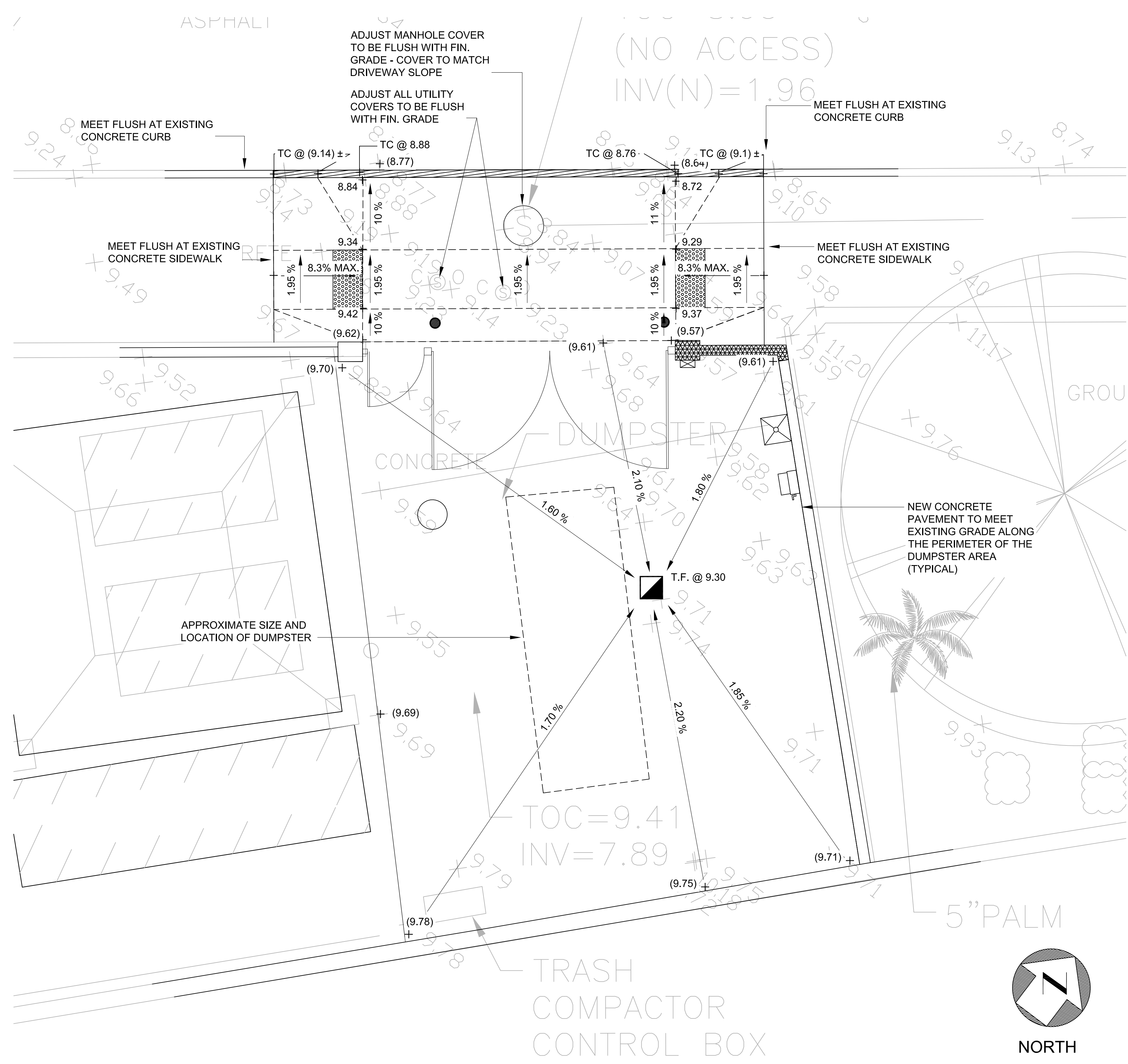
SHEET TITLE

LAYOUT PLAN AND  
CURB DETAIL

SHEET NO

L-2





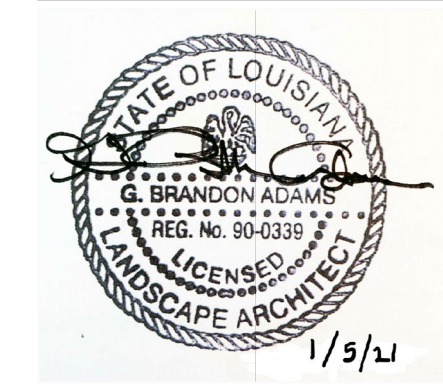
GRADING PLAN

SCALE: 1/4" = 1'-0"

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ARCHITECTURE  
PLANNING  
INTERIORS  
LANDSCAPE  
CONSTRUCTION  
DEVELOPMENT

PEREZ  
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NEW ORLEANS, LA 70117  
WWW.E-PEREZ.COM



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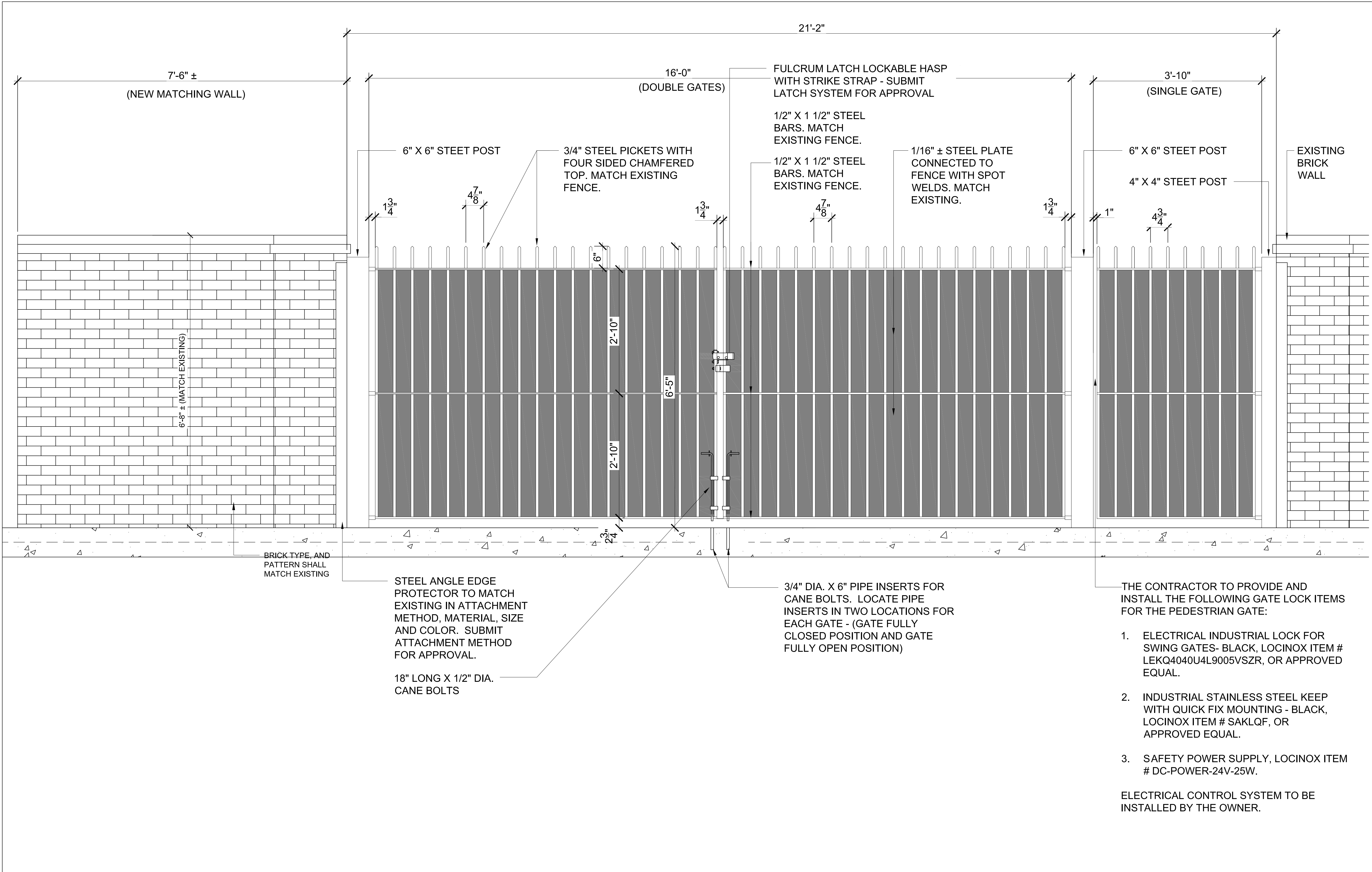
REVISIONS:		
No.	Date	Description

DRAWN BY: BA / JL  
CHECKED BY:  
SHEET TITLE

GRADING PLAN

SHEET NO  
L-3





1 ELEVATION A  
SCALE: 1" = 1'-0"

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ARCHITECTURE  
PLANNING  
INTERIORS  
LANDSCAPE  
CONSTRUCTION  
DEVELOPMENT

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REVISIONS:		
No.	Date	Description

DRAWN BY: BA / JL  
CHECKED BY:  
SHEET TITLE

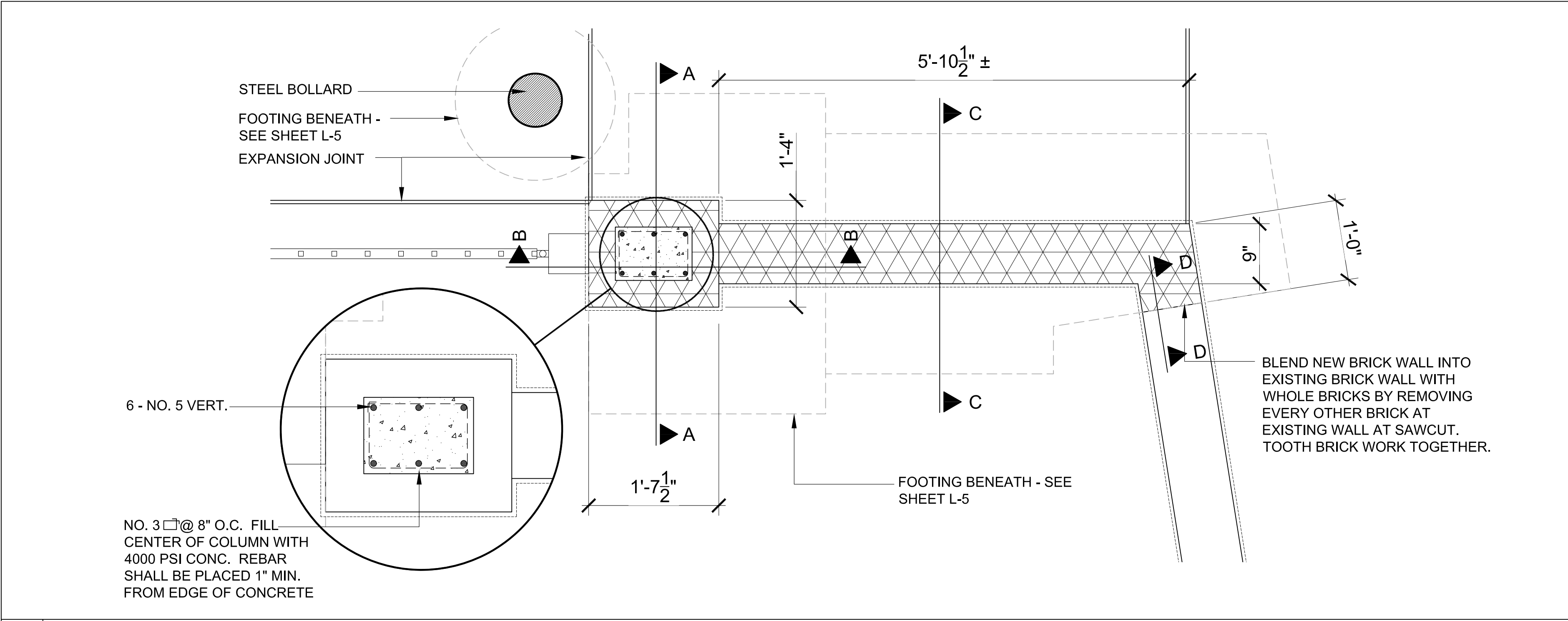
NEW GATE  
DETAILS

SHEET NO  
**L-4**

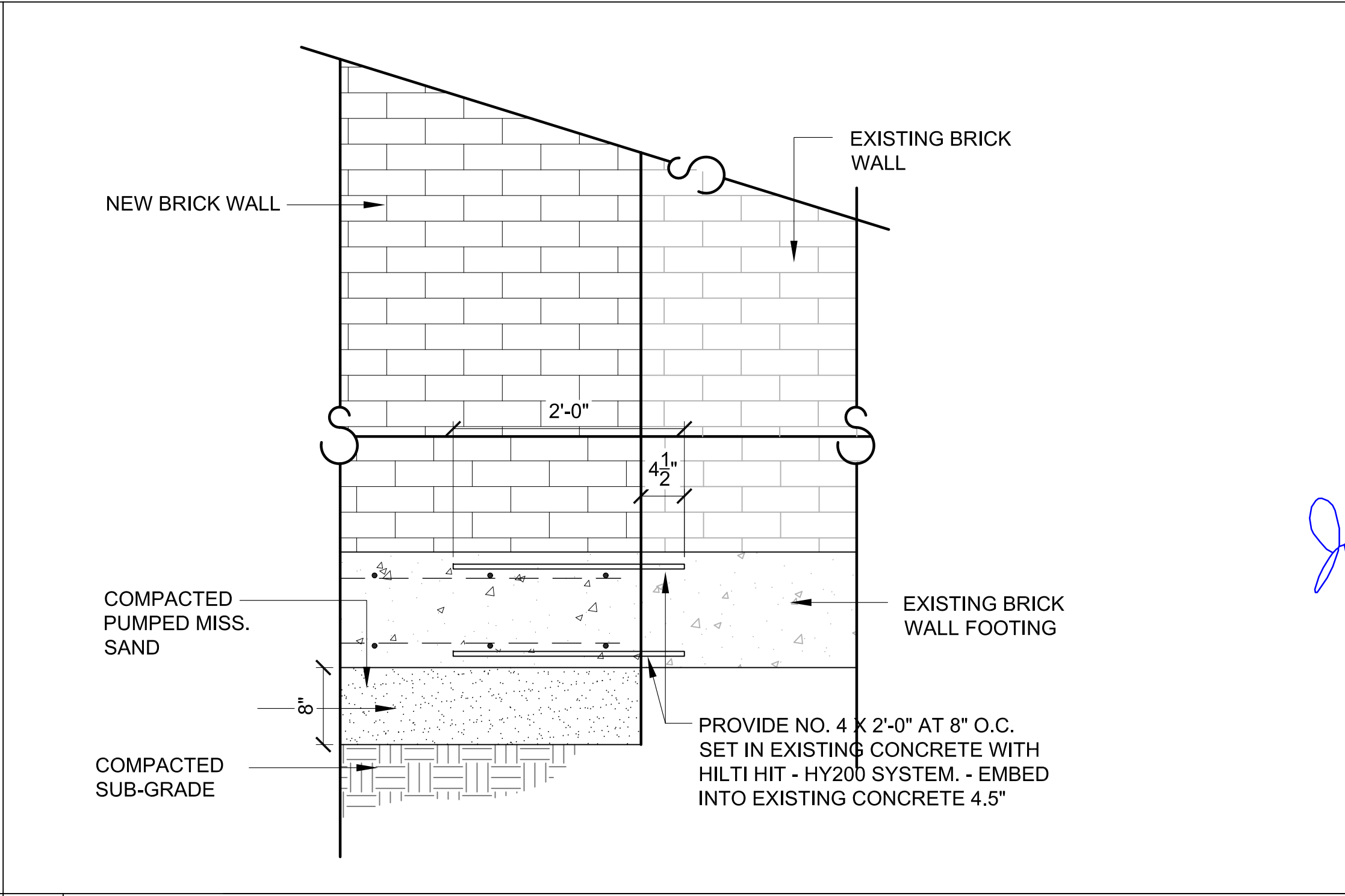




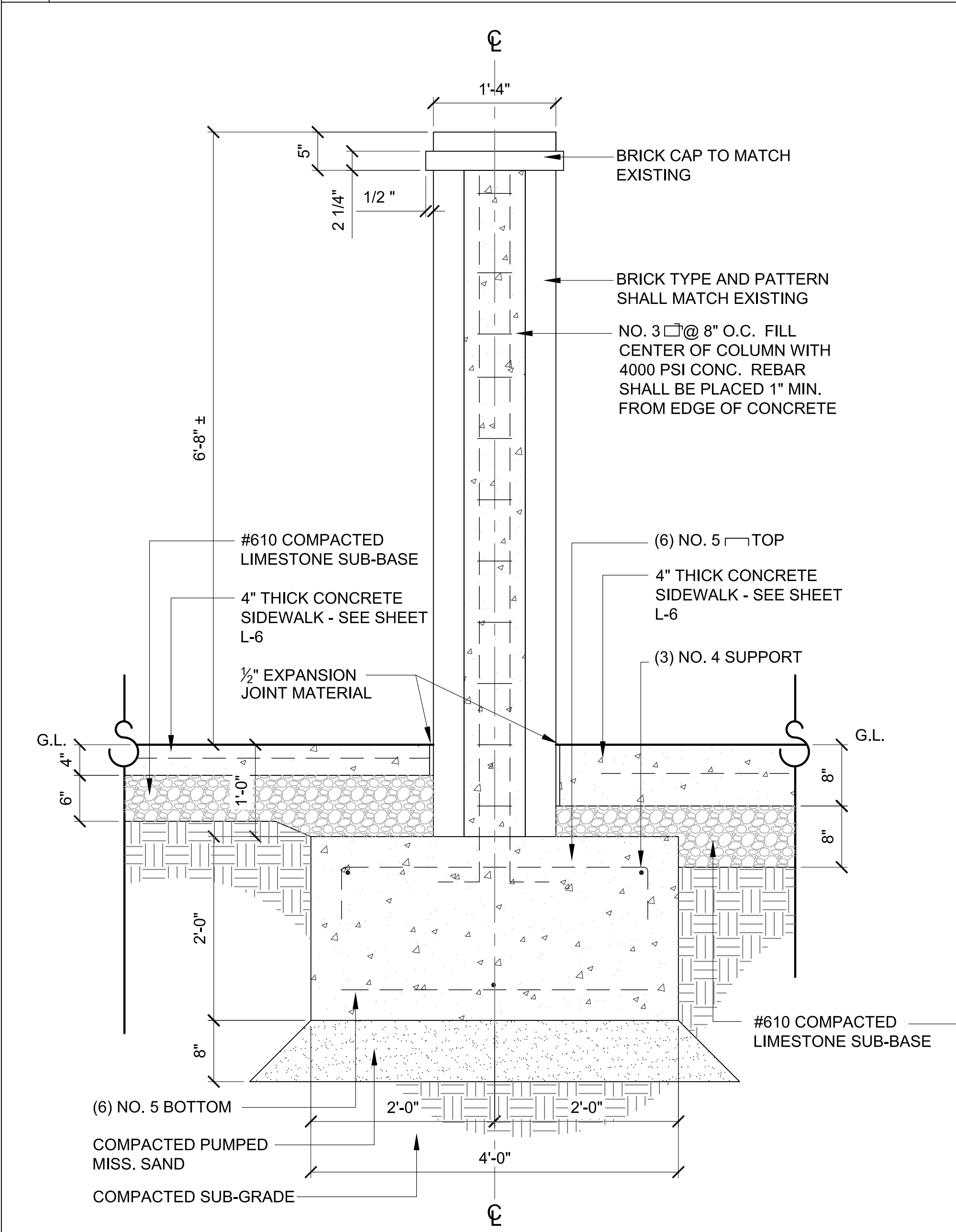




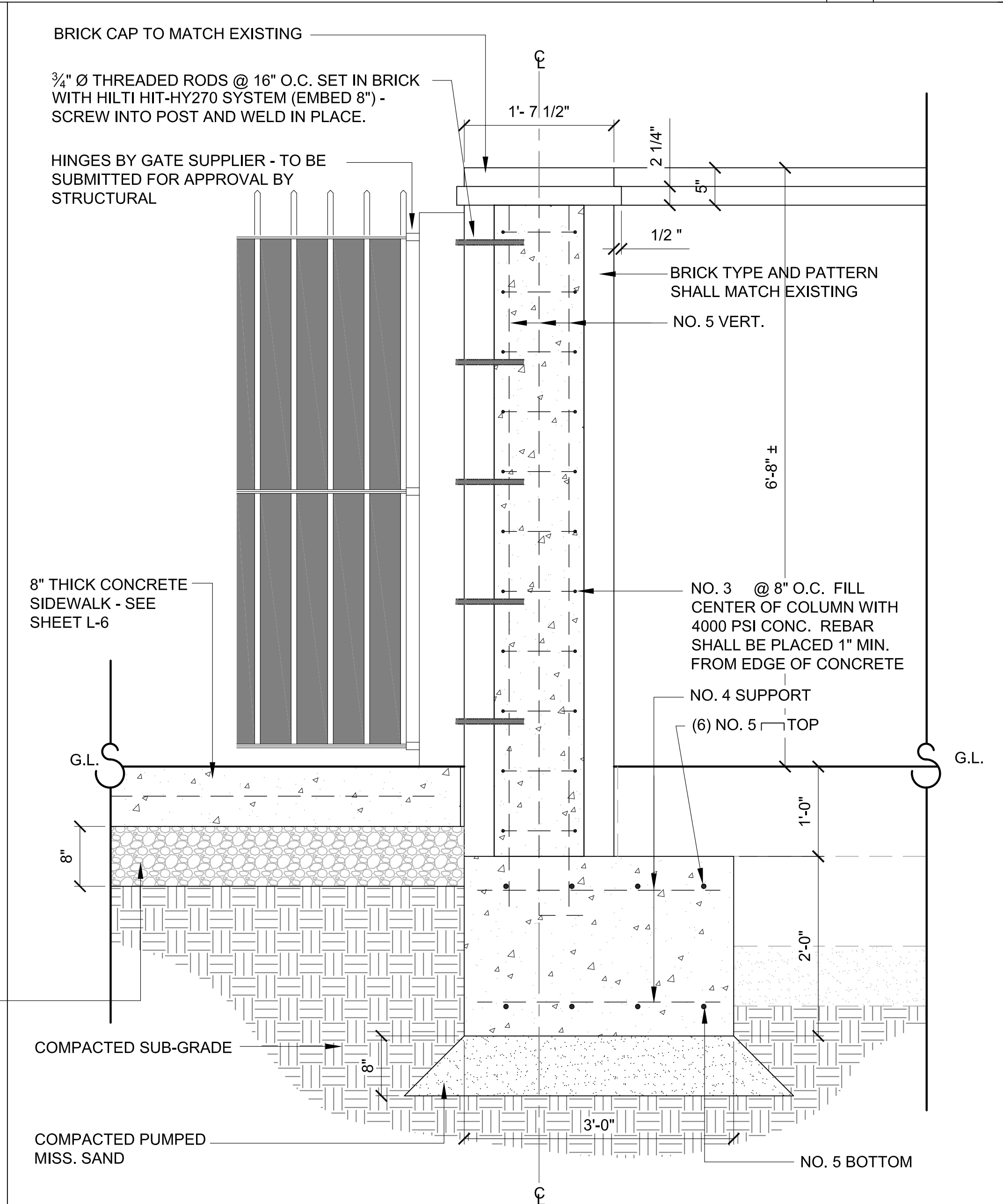
1 NEW BRICK WALL PLAN  
SCALE: 1" = 1'-0"



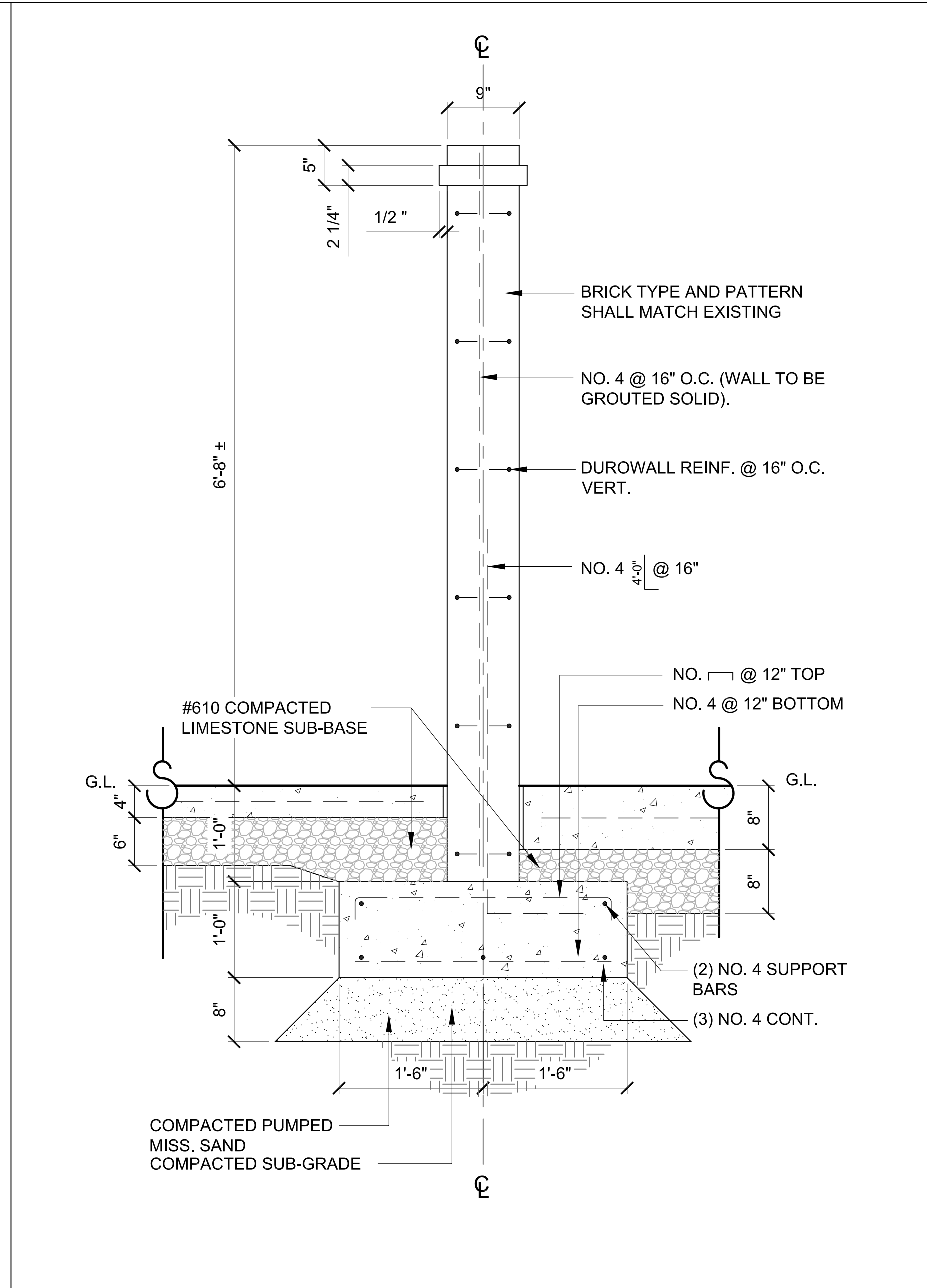
2 SECTION D-D  
SCALE: 1" = 1'-0"



3 SECTION A-A  
SCALE: 1" = 1'-0"



4 SECTION B-B  
SCALE: 1" = 1'-0"



5 SECTION C-C  
SCALE: 1" = 1'-0"

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ARCHITECTURE  
PLANNING  
INTERIORS  
LANDSCAPE  
CONSTRUCTION  
DEVELOPMENT

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NEW ORLEANS, LA 70117  
WWW.E-PEREZ.COM

STATE OF LOUISIANA  
JONATHAN A. SOFRANKO  
REG. NO. 28228  
REGISTERED  
PROFESSIONAL ENGINEER  
IN  
CIVIL ENGINEERING  
01-05-21

North Peters Street Dumpster Area Improvements

New Orleans, Louisiana 70116  
Construction Documents

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PROJECT NO.: 01-14-1034-05

REVISIONS:		
No.	Date	Description

DRAWN BY: JL  
CHECKED BY:  
SHEET TITLE

BRICK WALL  
DETAILS

SHEET NO

L-6



REVISIONS:		
No.	Date	Description

DRAWN BY:  
CHECKED BY:

SHEET TITLE  
PLUMBING NOTES,  
ABBREVIATIONS,  
AND SCHEDULES

SHEET NO

P-0



PLUMBING & SPRINKLER SYMBOLS			
THIS IS A TYPICAL SCHEDULE. NOT ALL SYMBOLS ARE NECESSARILY USED ON THIS PROJECT.			
	PIPE ELBOW TURNED UP		GATE VALVE
	PIPE ELBOW TURNED DOWN		GLOBE VALVE
	TEE OFF BOTTOM		STRAINER
	TEE OFF TOP		CHECK VALVE
	SOIL OR WASTE		BALL VALVE
	SANITARY VENT		PLUG COCK OR VALVE
	DOMESTIC COLD WATER (CW)		TEMPERATURE-PRESSURE RELIEF VALVE
	120° DOMESTIC HOT WATER (HW)		HOSE BIBB
	120° DOMESTIC HOT WATER RETURN (HWR)		FLOOR DRAIN (PLAN & ELEVATION)
	140° DOMESTIC HOT WATER		CLEANOUT (PLAN & ELEVATION)
	140° DOMESTIC HOT WATER RETURN		OPEN SIGHT DRAIN (PLAN & ELEVATION)
	COMPRESSED AIR		DOWN SPOUT
	ACID VENT		HOSE BIBB
	ACID WASTE		OPEN SIGHT DRAIN
	GREASE WASTE		ROOF DRAIN
	DRAIN		VENT
	HIGH PRESSURE NATURAL GAS		WASTE
	LOW PRESSURE NATURAL GAS		VENT THRU ROOF
	STORM DRAIN		TRAP PRIMER
	DIRECTION OF FLOW IN PIPE		CIRCUIT BALANCING VALVE
	POINT BETWEEN NEW AND EXISTING WORK		PLUMBING FIXTURE 120V TO 24V TRANSFORMER
	POINT BETWEEN DEMO AND EXIST TO REMAIN		SOLENOID VALVE
	WASTE & VENT RISER NO.		PRESSURE REGULATING VALVE
	DOMESTIC WATER RISER NO.		REDUCED PRESSURE BACKFLOW PREVENTER
	DEMOLITION		SHUT-OFF VALVE WITH ELECTRIC ACTUATOR

PLUMBING ABBREVIATIONS			
A.F.F.	ABOVE FINISHED FLOOR	G.P.M.	GALLONS PER MINUTE
A.F.G.	ABOVE FINISHED GRADE	GAL.	GALLONS
A.P.	ACCESS PANEL	G.P.H.	GALLONS PER HOUR
A/S	AUTOMATIC SPRINKLER	H.W.	HOT WATER
B.F.F.	BELOW FINISHED FLOOR	H.B.	HOSE BIBB
BLDG.	BUILDING	I.W.	INDIRECT WASTE
C.W	COLD WATER	INV.	INVERT ELEVATION
C.I.P.	CAST IRON PIPE	M.H.	MANHOLE
CLG	CEILING	N.T.S.	NOT TO SCALE
C.L.	CENTER LINE	P.R.V.	PRESSURE REDUCING VALVE
C.V.	CHECK VALVE	P.R.S.	PRESSURE REDUCING STATION
CONT.	CONTINUATION	PLUMB.	PLUMBING
COND.	CONDENSATE	R.D.	ROOF DRAIN
C.O.	CLEANOUT	R.P.B.P.	REDUCED PRESSURE BACKFLOW PREVENTER
C.F.H.	CUBIC FEET PER HOUR	R.W.L.	RAIN WATER LEADER
C.T.B.	CONCRETE THRUST BLOCK	R.D.	ROOF DRAIN
DET.	DETAIL	RED.	REDUCER
DIAG.	DIAGRAM	RM.	ROOM
DIM.	DIAMETER	SAN.	SANITARY
DN.	DOWN	SCH.	SCHEDULE
DOM.	DOMESTIC	SECT.	SECTION
DR.	DRAIN	SHT.	SHEET
DWG.	DRAWING	SPECS.	SPECIFICATIONS
EA.	EACH	SPKR.	SPRINKLER
(E)	EXISTING	S.S.	SANITARY SEWER
F.H.	FIRE HYDRANT	STM	STORM WATER
F.D.	FLOOR DRAIN	TEMP.	TEMPERATURE
F.SP.	FIRE STANDPIPE	TYP.	TYPICAL
F.U.	FIXTURE UNIT	V.T.R.	VENT THRU ROOF
F.F.	FINISHED FLOOR	V.	VENT
F.D.C.	FIRE DEPARTMENT CONNECTION	VS.	VENT STACK
FL.	FLOOR	W.C.O.	WALL CLEANOUT
FT.	FOOT	W.	WASTE (INTERIOR)
G.V.	GATE VALVE	W/	WITH

PLUMBING FIXTURE SCHEDULE									
REMARKS: 1. INCLUDE A REINFORCED FIBERGLASS GRATE COVER.									
MARK	TYPE	WASTE	VENT	CW	HW	DESCRIPTION	MANUFACTURER	MODEL	REMARKS
YH	YARD HYDRANT			3/4"	3/4"	FREEZELESS YARD HYDRANT	WOODFORD	U34A	
MS	MOP SINK	3"	2"			STAINLESS STEEL MOP SINK	ACORN	1630-TF1	
AD	AREA DRAIN	4"	2"			HEAVY TRAFFIC RATED AREA DRAIN	JR SMITH	2450	1.
MF	MOP SINK FAUCET			3/4"	3/4"	MOP SINK FAUCET	CHICAGO FAUCETS	521-ABCP	

GAS INSTANTANEOUS WATER HEATER SCHEDULE																	
REMARKS:																	
1.																	
MARK	LOCATION	WEIGHT (lbs)	FLOW (GPM)	HEAD (FT)	EWT (°F)	LWT (°F)	INPUT (MBH)	CONNECTIONS		ELECTRICAL DATA					BASIS OF DESIGN		REMARKS
								AIR INLET (ø)	FLUE OUTLET (ø)	VOLT	PH	FREQ	MCA (A)	MOCP (A)	MANUFACTURER	MODEL	
WH-1	SEE DWGS.	58	4.2	5	40	120	199	3"	3"	120 V	1	60 Hz	4.2	15	NORITZ	NC1991-OD	1

INTERCEPTOR SCHEDULE															
REMARKS: 1. PROVIDE UNIT WITH BUILT-IN FLOW CONTROL.					ACCESSORIES: 1. PROVIDE UNIT WITH PUMP OUT PORT. 2. TRAFFIC RATED MANHOLE COVER.										
MARK	DESCRIPTION	LOCATION	CAPACITY (GAL.)	FLOW RATE (GPM)	CONNECTIONS		DIMENSIONS			MATERIAL	BASIS OF DESIGN		WEIGHT (LBS)	ACCESSORIES	REMARKS
GT-1	GREASE INTERCEPTOR	SEE DWGS	125	75	4"	4"	47"	33"	40"	POLYETHYLENE	MANUFACTURER	MODEL	190	1., 2.	1.
											SCHIER	GB-75			



SECTION 220000 - PLUMBING:

A. GENERAL REQUIREMENTS

REQUIREMENTS UNDER DIVISION ONE AND THE GENERAL AND SUPPLEMENTARY CONDITIONS OF THESE SPECIFICATIONS SHALL BE A PART OF THIS SECTION. CONTRACTOR SHALL BECOME THOROUGHLY ACQUAINTED WITH ITS CONTENTS AS TO REQUIREMENTS THAT AFFECT THIS DIVISION OR SECTION. THE WORK REQUIRED UNDER THIS SECTION INCLUDES MATERIAL, EQUIPMENT, APPLIANCES, TRANSPORTATION, SERVICES, AND LABOR REQUIRED TO COMPLETE THE ENTIRE SYSTEM AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS.

THE SPECIFICATIONS AND DRAWINGS FOR THE PROJECT ARE COMPLEMENTARY, AND PORTIONS OF THE WORK DESCRIBED IN ONE SHALL BE PROVIDED AS IF DESCRIBED IN BOTH. IN THE EVENT OF DISCREPANCIES, NOTIFY THE ENGINEER AND REQUEST CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK INVOLVED.

B. DEFINITIONS

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

FURNISHED BY OWNER OR FURNISHED BY OTHERS: THE ITEM WILL BE FURNISHED BY THE OWNER OR OTHERS. IT IS TO BE INSTALLED AND CONNECTED UNDER THE REQUIREMENTS OF THIS DIVISION, COMPLETE AND READY FOR OPERATION, INCLUDING ITEMS INCIDENTAL TO THE WORK, INCLUDING SERVICES NECESSARY FOR PROPER INSTALLATION AND OPERATION. THE INSTALLATION SHALL BE INCLUDED UNDER THE GUARANTEE REQUIRED BY THIS DIVISION.

ENGINEER: WHERE REFERENCED IN THIS DIVISION, "ENGINEER" IS THE ENGINEER OF RECORD AND THE DESIGN PROFESSIONAL FOR THE WORK UNDER THIS DIVISION, AND IS A CONSULTANT TO, AND AN AUTHORIZED REPRESENTATIVE OF, THE ARCHITECT, AS DEFINED IN THE GENERAL AND/OR SUPPLEMENTARY CONDITIONS. WHEN USED IN THIS DIVISION, IT MEANS INCREASED INVOLVEMENT BY, AND OBLIGATIONS TO, THE ENGINEER, IN ADDITION TO INVOLVEMENT BY, AND OBLIGATIONS TO, THE "ARCHITECT".

AHJ: THE LOCAL CODE AND/OR INSPECTION AGENCY (AUTHORITY) HAVING JURISDICTION OVER THE WORK. THE TERMS "APPROVED EQUAL", "EQUIVALENT", OR "EQUAL" ARE USED SYNONYMOUSLY AND SHALL MEAN "ACCEPTED BY OR ACCEPTABLE TO THE ENGINEER AS EQUIVALENT TO THE ITEM OR MANUFACTURER SPECIFIED". THE TERM "APPROVED" SHALL MEAN LABELED, LISTED, OR BOTH, BY A NATIONALLY RECOGNIZED TESTING LABORATORY (E.G. UL, ETL, CSA), AND ACCEPTABLE TO THE AHJ OVER THIS PROJECT.

NRTL: NATIONALLY RECOGNIZED TESTING LABORATORY, AS DEFINED AND LISTED BY OSHA IN 29 CFR 1910.7 (E.G., UL, ETL, CSA), AND ACCEPTABLE TO THE AHJ OVER THIS PROJECT.

THE TERMS "APPROVED EQUAL", "EQUIVALENT", OR "EQUAL" ARE USED SYNONYMOUSLY AND SHALL MEAN "ACCEPTED BY OR ACCEPTABLE TO THE ENGINEER AS EQUIVALENT TO THE ITEM OR MANUFACTURER SPECIFIED". THE TERM "APPROVED" SHALL MEAN LABELED, LISTED, OR BOTH, BY AN NRTL, AND ACCEPTABLE TO THE AHJ OVER THIS PROJECT.

THE TERM LEAD FREE REFERS TO THE WETTED SURFACE OF PIPE, FITTINGS AND FIXTURES IN POTABLE WATER SYSTEMS THAT HAVE A WEIGHTED AVERAGE LEAD CONTENT +0.25% PER SAFE DRINKING WATER ACT AS AMENDED JANUARY 4, 2011 SECTION 1417.

C. PREBID SITE VISIT

PRIOR TO SUBMITTING BID, VISIT THE SITE OF THE PROPOSED WORK AND BECOME FULLY INFORMED AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE DONE. FAILURE TO DO SO WILL NOT BE CONSIDERED SUFFICIENT JUSTIFICATION TO REQUEST OR OBTAIN EXTRA COMPENSATION OVER AND ABOVE THE CONTRACT PRICE.

D. MATERIAL AND WORKMANSHIP

PROVIDE NEW MATERIAL, EQUIPMENT, AND APPARATUS UNDER THIS CONTRACT UNLESS OTHERWISE STATED HEREIN, OF BEST QUALITY NORMALLY USED FOR THE PURPOSE IN GOOD COMMERCIAL PRACTICE, AND FREE FROM DEFECTS. MODEL NUMBERS LISTED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS ARE NOT NECESSARILY INTENDED TO DESIGNATE THE REQUIRED TRIM, WRITTEN DESCRIPTIONS OF THE TRIM GOVERN MODEL NUMBERS.

PIPE, PIPE FITTINGS, PIPE SPECIALTIES AND VALVES SHALL BE MANUFACTURED IN PLANTS LOCATED IN THE UNITED STATES.

WORK PERFORMED UNDER THIS CONTRACT SHALL PROVIDE A NEAT AND "WORKMANLIKE" APPEARANCE WHEN COMPLETED, TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER. WORKMANSHIP SHALL BE THE FINEST POSSIBLE BY EXPERIENCED MECHANICS. INSTALLATIONS SHALL COMPLY WITH APPLICABLE CODES AND LAWS.

THE COMPLETE INSTALLATION SHALL FUNCTION AS DESIGNED AND INTENDED WITH RESPECT TO EFFICIENCY, CAPACITY, NOISE LEVEL, ETC. ABNORMAL NOISE CAUSED BY RATTLING EQUIPMENT, PIPING, DUCTS, AIR DEVICES, AND SQUEAKS IN ROTATING COMPONENTS WILL NOT BE ACCEPTABLE. IN GENERAL, MATERIALS AND EQUIPMENT SHALL BE OF COMMERCIAL SPECIFICATION GRADE IN QUALITY. LIGHT DUTY AND RESIDENTIAL TYPE EQUIPMENT WILL NOT BE ACCEPTED.

REMOVE FROM THE PREMISES WASTE MATERIAL PRESENT AS A RESULT OF WORK, INCLUDING CARTONS, CRATING, PAPER, STICKERS, AND/OR EXCAVATION MATERIAL NOT USED IN BACKFILLING, ETC. CLEAN EQUIPMENT INSTALLED UNDER THIS CONTRACT TO PRESENT A NEAT AND CLEAN INSTALLATION AT THE TERMINATION OF THE WORK.

REPAIR OR REPLACE PUBLIC AND PRIVATE PROPERTY DAMAGED AS A RESULT OF WORK PERFORMED UNDER THIS CONTRACT TO THE SATISFACTION OF AUTHORITIES AND REGULATIONS HAVING JURISDICTION.

E. COORDINATION

COORDINATE WORK WITH THAT OF OTHER TRADES SO THAT THE VARIOUS COMPONENTS OF THE SYSTEMS WILL BE INSTALLED AT THE PROPER TIME, WILL FIT THE AVAILABLE SPACE, AND WILL ALLOW PROPER SERVICE ACCESS TO THOSE ITEMS REQUIRING MAINTENANCE. COMPONENTS WHICH ARE INSTALLED WITHOUT REGARD TO THE ABOVE SHALL BE RELOCATED AT NO ADDITIONAL COST TO THE OWNER.

UNLESS OTHERWISE INDICATED, THE GENERAL CONTRACTOR WILL PROVIDE CHASES AND OPENINGS IN BUILDING CONSTRUCTION REQUIRED FOR INSTALLATION OF THE SYSTEMS SPECIFIED HEREIN. CONTRACTOR SHALL FURNISH THE GENERAL CONTRACTOR WITH INFORMATION WHERE CHASES AND OPENINGS ARE REQUIRED. KEEP INFORMED AS TO THE WORK OF OTHER TRADES ENGAGED IN THE CONSTRUCTION OF THE PROJECT, AND EXECUTE WORK IN A MANNER AS TO NOT INTERFERE WITH OR DELAY THE WORK OF OTHER TRADES.

FIGURED DIMENSIONS SHALL BE TAKEN IN PREFERENCE TO SCALE DIMENSIONS. CONTRACTOR SHALL TAKE HIS OWN MEASUREMENTS AT THE BUILDING, AS VARIATIONS MAY OCCUR. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ERRORS THAT COULD HAVE BEEN AVOIDED BY PROPER CHECKING AND INSPECTION.

PROVIDE MATERIALS WITH TRIM THAT WILL PROPERLY FIT THE TYPES OF CEILING, WALL, OR FLOOR FINISHES ACTUALLY INSTALLED. MODEL NUMBERS LISTED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS ARE NOT INTENDED TO DESIGNATE THE REQUIRED TRIM.

F. ORDINANCES AND CODES

WORK PERFORMED UNDER THIS CONTRACT SHALL, AT A MINIMUM, BE IN CONFORMANCE WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES HAVING JURISDICTION. EQUIPMENT FURNISHED AND ASSOCIATED INSTALLATION WORK PERFORMED UNDER THIS CONTRACT SHALL BE IN STRICT COMPLIANCE WITH CURRENT APPLICABLE CODES ADOPTED BY THE LOCAL AHJ INCLUDING ANY AMENDMENTS AND STANDARDS AS SET FORTH BY THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), UNDERWRITERS LABORATORIES (UL), OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME), AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS (ASHRAE), AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) AND OTHER NATIONAL STANDARDS AND CODES WHERE APPLICABLE. WHERE THE CONTRACT DOCUMENTS EXCEED THE REQUIREMENTS OF THE REFERENCED CODES, STANDARDS, ETC., THE CONTRACT DOCUMENTS SHALL TAKE PRECEDENCE.

PROCURE AND PAY FOR PERMITS AND LICENSES REQUIRED FOR THE ACCOMPLISHMENT OF THE WORK HEREIN DESCRIBED. WHERE REQUIRED, OBTAIN, PAY FOR AND FURNISH CERTIFICATES OF INSPECTION TO OWNER. CONTRACTOR WILL BE HELD RESPONSIBLE FOR VIOLATIONS OF THE LAW.

G. PROTECTION OF EQUIPMENT AND MATERIALS

STORE AND PROTECT FROM DAMAGE EQUIPMENT AND MATERIALS DELIVERED TO JOB SITE. COVER WITH WATERPROOF, TEAR-RESISTANT, HEAVY TARP OR POLYETHYLENE PLASTIC AS REQUIRED TO PROTECT FROM PLASTER, DIRT, PAINT, WATER, OR PHYSICAL DAMAGE. EQUIPMENT AND MATERIAL THAT HAS BEEN DAMAGED BY CONSTRUCTION ACTIVITIES WILL BE REJECTED, AND CONTRACTOR IS OBLIGATED TO FURNISH NEW EQUIPMENT AND MATERIAL OF A LIKE KIND.

KEEP PREMISES BROOM CLEAN FROM FOREIGN MATERIAL CREATED DURING WORK PERFORMED UNDER THIS CONTRACT. PIPING, EQUIPMENT, ETC. SHALL HAVE A NEAT AND CLEAN APPEARANCE AT THE TERMINATION OF THE WORK.

PLUG OR CAP OPEN ENDS OF DUCTWORK AND PIPING SYSTEMS WHILE STORED AND INSTALLED DURING CONSTRUCTION WHEN NOT IN USE TO PREVENT THE ENTRANCE OF DEBRIS INTO THE SYSTEMS. WITH AN FDA APPROVED BUTYL RUBBER DIAPHRAGM, TAPS FOR PRESSURE GAGE, AIR CHARGING FITTING, AND DRAIN FITTING. SUPPORT AS DETAILED ON THE DRAWINGS. CHARGE TANK WITH AIR PRESSURE EQUAL TO THE STATIC WATER PRESSURE.

SECTION 220000 - PLUMBING (CONTINUED):

H. SUBSTITUTIONS

THE BASE BID SHALL INCLUDE BUT IS NOT LIMITED TO THE PRODUCTS FROM MANUFACTURERS SPECIFICALLY NAMED IN THE DRAWINGS AND SPECIFICATIONS. SUBSTITUTION WILL BE CONSIDERED PRIOR TO RECEIPT OF BIDS BY WRITTEN REQUEST FOR APPROVAL RECEIVED BY THE ENGINEER AT LEAST TEN CALENDAR DAYS PRIOR TO THE DATE FOR RECEIPT OF BIDS. EACH SUCH REQUEST SHALL INCLUDE THE NAME OF THE MATERIAL OR EQUIPMENT FOR WHICH IT IS TO BE SUBSTITUTED AND A COMPLETE DESCRIPTION OF THE PROPOSED SUBSTITUTE INCLUDING DRAWINGS, CUTS, PERFORMANCE AND TEST DATA AND OTHER INFORMATION NECESSARY FOR AN EVALUATION. A STATEMENT SETTING FORTH CHANGES IN OTHER MATERIALS, EQUIPMENT OR OTHER WORK THAT INCORPORATION OF THE SUBSTITUTE WOULD REQUIRE SHALL BE INCLUDED. THE BURDEN OF PROOF OF THE MERIT OF THE PROPOSED SUBSTITUTE IS UPON THE PROPOSER. THE ENGINEER'S DECISION OF APPROVAL OR DISAPPROVAL TO BID OF A PROPOSED SUBSTITUTION SHALL BE FINAL.

THE TERMS "APPROVED", "APPROVED EQUAL", AND "EQUAL" REFER TO APPROVAL BY THE ENGINEER AS AN ACCEPTABLE ALTERNATE BID. NO SUBSTITUTIONS WILL BE CONSIDERED THAT ARE NOT BID AS AN ALTERNATE. NO MATERIAL SUBSTITUTIONS SHALL BE CONSIDERED FOR APPROVAL PRIOR TO AWARD OF CONTRACT.

COORDINATE AND VERIFY WITH OTHER TRADES WHETHER OR NOT THE SUBSTITUTED EQUIPMENT CAN BE INSTALLED AS SHOWN ON THE CONSTRUCTION DRAWINGS WITHOUT MODIFICATION TO ASSOCIATED SYSTEMS OR ARCHITECTURAL OR ENGINEERING DESIGN. INCLUDE ADDITIONAL COSTS FOR ARCHITECTURAL AND ENGINEERING DESIGN FEES IN BID IF DRAWING MODIFICATIONS ARE REQUIRED BECAUSE OF SUBSTITUTED EQUIPMENT.

I. SHOP DRAWINGS

UPON BEING AWARDED A CONTRACT, SUBMIT TO THE ARCHITECT FOR APPROVAL, SIX (6) COPIES OF MANUFACTURER'S SHOP DRAWINGS FOR EQUIPMENT TO BE FURNISHED UNDER THIS CONTRACT, ITEMS REQUIRING COORDINATION BETWEEN CONTRACTORS AND SHEET METAL DUCTWORK FABRICATION DRAWINGS. BEFORE SUBMITTING SHOP DRAWINGS AND MATERIAL LISTS, VERIFY THAT EQUIPMENT SUBMITTED IS MUTUALLY COMPATIBLE AND SUITABLE FOR THE INTENDED USE, AND WILL FIT THE AVAILABLE SPACE AND ALLOW AMPLE ROOM FOR MAINTENANCE. HIGHLIGHT, MARK, LIST OR INDICATE THE MATERIALS, PERFORMANCE CRITERIA AND ACCESSORIES THAT ARE BEING PROPOSED. SUBMIT SHOP DRAWINGS AS EARLY AS REQUIRED TO SUPPORT THE PROJECT SCHEDULE. ALLOW FOR TWO WEEKS ENGINEER REVIEW TIME PLUS MAILING TIME PLUS A DUPLICATION OF THIS TIME FOR RESUBMITTAL IF REQUIRED.

THE ENGINEER'S CHECKING AND SUBSEQUENT APPROVAL OF SUCH SHOP DRAWINGS WILL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS IN DIMENSIONS, DETAILS, SIZE OF MEMBERS, QUANTITIES, OMISSIONS OF COMPONENTS OR FITTINGS; COORDINATION OF ELECTRICAL REQUIREMENTS; OR FOR COORDINATING ITEMS WITH ACTUAL BUILDING CONDITIONS. PROCEED WITH THE PROCUREMENT AND INSTALLATION OF EQUIPMENT ONLY AFTER RECEIVING APPROVED SHOP DRAWINGS RELATIVE TO EACH ITEM.

CATALOG DATA SHALL BE PROPERLY BOUND, IDENTIFIED, INDEXED AND TABBED IN A 3-RING BINDER. LABEL THE CATALOG DATA WITH THE EQUIPMENT IDENTIFICATION ACRONYM OR NUMBER AS USED ON THE DRAWINGS AND INCLUDE PERFORMANCE CURVES, CAPACITIES, SIZES, WEIGHTS, MATERIALS, FINISHES, WIRING DIAGRAMS, ELECTRICAL REQUIREMENTS AND DEVIATIONS FROM SPECIFIED EQUIPMENT OR MATERIALS. FOR EQUIPMENT WITH MOTOR STARTERS OR VFDS, INCLUDE SHORT CIRCUIT CURRENT RATINGS. MARK OUT INAPPLICABLE ITEMS. SHOP DRAWINGS WILL BE RETURNED WITHOUT REVIEW IF THE ABOVE MENTIONED REQUIREMENTS ARE NOT MET.

REFER TO DIVISION 01 FOR ACCEPTANCE OF ELECTRONIC SUBMITTALS FOR THIS PROJECT. FOR ELECTRONIC SUBMITTALS, CONTRACTOR SHALL SUBMIT THE DOCUMENTS IN ACCORDANCE WITH THE PROCEDURES SPECIFIED IN DIVISION 01. CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER THAT THE SHOP DRAWINGS HAVE BEEN POSTED. IF ELECTRONIC SUBMITTAL PROCEDURES ARE NOT DEFINED IN DIVISION 01, CONTRACTOR SHALL INCLUDE THE WEBSITE, USER NAME AND PASSWORD INFORMATION NEEDED TO ACCESS THE SUBMITTALS. FOR SUBMITTALS SENT BY E-MAIL, CONTRACTOR SHALL COPY THE ARCHITECT AND ENGINEER'S DESIGNATED REPRESENTATIVES. CONTRACTOR SHALL ALLOW THE ENGINEER REVIEW TIME AS SPECIFIED ABOVE IN THE CONSTRUCTION SCHEDULE. CONTRACTOR SHALL SUBMIT ONLY THE DOCUMENTS REQUIRED TO PURCHASE THE MATERIALS AND/OR EQUIPMENT IN THE ELECTRONIC SUBMITTAL AND SHALL CLEARLY INDICATE THE MATERIALS, PERFORMANCE CRITERIA AND ACCESSORIES BEING PROPOSED. GENERAL PRODUCT CATALOG DATA NOT SPECIFICALLY NOTED TO BE PART OF THE SPECIFIED PRODUCT WILL BE REJECTED AND RETURNED WITHOUT REVIEW.

J. ELECTRONIC DRAWING FILES

IN PREPARATION OF SHOP DRAWINGS OR RECORD DRAWINGS, CONTRACTOR MAY, AT HIS OPTION, OBTAIN ELECTRONIC DRAWING FILES IN AUTOCAD OR DXF FORMAT ON 3.5 INCH FLOPPY DISK, 100 MB ZIP DISK OR CD-ROM DISK, AS DESIRED, FROM THE ENGINEER FOR A SHIPPING AND HANDLING FEE OF \$200 FOR A DRAWING SET UP TO 12 SHEETS AND \$15 PER SHEET FOR EACH ADDITIONAL SHEET. CONTRACTOR SHALL CONTACT THE ARCHITECT FOR WRITTEN AUTHORIZATION AND ENGINEER FOR THE NECESSARY RELEASE AGREEMENT FORM AND TO SPECIFY SHIPPING METHOD AND DRAWING FORMAT. IN ADDITION TO PAYMENT, ARCHITECT'S WRITTEN AUTHORIZATION AND ENGINEER'S RELEASE AGREEMENT FORM MUST BE RECEIVED BEFORE ELECTRONIC DRAWING FILES WILL BE SENT.

K. OPERATION AND MAINTENANCE INSTRUCTIONS

DURING THE COURSE OF CONSTRUCTION, COLLECT AND COMPILE A COMPLETE BROCHURE OF EQUIPMENT FURNISHED AND INSTALLED ON THIS PROJECT. INCLUDE OPERATIONAL AND MAINTENANCE INSTRUCTIONS, MANUFACTURER'S CATALOG SHEETS, WIRING DIAGRAMS, PARTS LISTS, APPROVED SHOP DRAWINGS, AND DESCRIPTIVE LITERATURE AS FURNISHED BY THE EQUIPMENT MANUFACTURER. INCLUDE AN INSIDE COVER SHEET THAT LISTS THE PROJECT NAME, DATE, OWNER, ARCHITECT, CONSULTING ENGINEER, GENERAL CONTRACTOR, SUB-CONTRACTOR, AND AN INDEX OF CONTENTS.

SUBMIT THREE COPIES OF LITERATURE BOUND IN APPROVED BINDERS WITH INDEX AND TABS SEPARATING EQUIPMENT TYPES TO THE ARCHITECT AT THE TERMINATION OF THE WORK. PAPER CLIPS, STAPLES, RUBBER BANDS, AND MAILING ENVELOPES ARE NOT CONSIDERED APPROVED BINDERS. FINAL APPROVAL OF MECHANICAL SYSTEMS INSTALLED UNDER THIS CONTRACT WILL BE WITHHELD UNTIL THIS EQUIPMENT BROCHURE IS RECEIVED AND DEEMED COMPLETE BY THE ARCHITECT AND ENGINEER. INSTRUCT WORKMEN TO SAVE REQUIRED LITERATURE SHIPPED WITH THE EQUIPMENT ITSELF. FOR INCLUSION IN THIS BROCHURE.

PROVIDE "AS-BUILT" DRAWINGS (SEE DIVISION 01 AND GENERAL CONDITIONS).

L. TRAINING

AT A TIME MUTUALLY AGREED UPON BETWEEN THE OWNER AND CONTRACTOR, PROVIDE THE SERVICES OF A FACTORY TRAINED AND AUTHORIZED REPRESENTATIVE TO TRAIN OWNER'S DESIGNATED PERSONNEL ON THE OPERATION AND MAINTENANCE OF THE EQUIPMENT PROVIDED FOR THIS PROJECT.

PROVIDE TRAINING TO INCLUDE BUT NOT BE LIMITED TO AN OVERVIEW OF THE SYSTEM AND/OR EQUIPMENT AS IT RELATES TO THE FACILITY AS A WHOLE; OPERATION AND MAINTENANCE PROCEDURES AND SCHEDULES RELATED TO STARTUP AND SHUTDOWN, TROUBLESHOOTING, SERVICING, PREVENTIVE MAINTENANCE AND APPROPRIATE OPERATOR INTERVENTION; AND REVIEW OF DATA INCLUDED IN THE OPERATION AND MAINTENANCE MANUALS.

SUBMIT A CERTIFICATION LETTER TO THE ARCHITECT STATING THAT THE OWNER'S DESIGNATED REPRESENTATIVE HAS BEEN TRAINED AS SPECIFIED HEREIN. LETTER SHALL INCLUDE DATE, TIME, ATTENDEES AND SUBJECT OF TRAINING. THE CONTRACTOR AND THE OWNER'S REPRESENTATIVE SHALL SIGN THE CERTIFICATION LETTER INDICATING AGREEMENT THAT THE TRAINING HAS BEEN PROVIDED.

SCHEDULE OWNER TRAINING WITH AT LEAST 7 DAYS' ADVANCE NOTICE.

M. SPARE PARTS

FURNISH TO OWNER, WITH RECEIPT, THE SPARE PARTS TO INCLUDE FAUCET WASHERS AND O-RINGS, FLUSHOMETER REPAIR KITS AND WATER CLOSET TANK REPAIR KITS FOR FIXTURES FURNISHED FOR THIS PROJECT.

N. WARRANTIES

WARRANT EACH SYSTEM AND EACH ELEMENT THEREOF AGAINST ALL DEFECTS DUE TO FAULTY WORKMANSHIP, DESIGN OR MATERIAL FOR A PERIOD OF 12 MONTHS FROM DATE OF SUBSTANTIAL COMPLETION, UNLESS SPECIFIC ITEMS ARE NOTED TO CARRY A LONGER WARRANTY IN THE CONSTRUCTION DOCUMENTS OR MANUFACTURER'S STANDARD WARRANTY EXCEEDS 12 MONTHS. REMEDY ALL DEFECTS, OCCURRING WITHIN THE WARRANTY PERIOD(S), AS STATED IN THE GENERAL CONDITIONS AND DIVISION 01.

WARRANTIES SHALL INCLUDE LABOR AND MATERIAL. MAKE REPAIRS OR REPLACEMENTS WITHOUT ANY ADDITIONAL COSTS TO THE OWNER.

PERFORM THE REMEDIAL WORK PROMPTLY, UPON WRITTEN NOTICE FROM THE ENGINEER OR OWNER.

AT THE TIME OF SUBSTANTIAL COMPLETION, DELIVER TO THE OWNER ALL WARRANTIES, IN WRITING AND PROPERLY EXECUTED, INCLUDING TERM LIMITS FOR WARRANTIES EXTENDING BEYOND THE ONE YEAR PERIOD, EACH WARRANTY INSTRUMENT BEING ADDRESSED TO THE OWNER AND STATING THE COMMENCEMENT DATE AND TERM.

O. CUTTING AND PATCHING

PERFORM CUTTING OF WALLS, FLOORS, CEILINGS, ETC. AS REQUIRED TO INSTALL WORK UNDER THIS SECTION. OBTAIN PERMISSION FROM THE ARCHITECT PRIOR TO CUTTING. DO NOT CUT OR DISTURB STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL FROM THE ARCHITECT. CUT HOLES AS SMALL AS POSSIBLE. GENERAL CONTRACTOR SHALL PATCH WALLS, FLOORS, ETC. AS REQUIRED BY WORK UNDER THIS SECTION. PATCHING SHALL MATCH THE ORIGINAL MATERIAL AND CONSTRUCTION. REPAIR AND REFINISH AREAS DISTURBED BY WORK TO THE CONDITION OF ADJOINING SURFACES IN A MANNER SATISFACTORY TO THE ARCHITECT.

P. ROUGH-IN

COORDINATE WITHOUT DELAY ROUGHING-IN WITH GENERAL CONSTRUCTION. CONCEAL PIPING AND CONDUIT ROUGH-IN EXCEPT IN UNFINISHED AREAS AND WHERE OTHERWISE SHOWN.

Q. STRUCTURAL STEEL

STRUCTURAL STEEL USED FOR SUPPORT OF EQUIPMENT, DUCTWORK AND PIPING SHALL BE NEW, CLEAN, AND CONFORM TO ASTM DESIGNATION A-36.

SUPPORT MECHANICAL COMPONENTS FROM THE BUILDING STRUCTURE. DO NOT SUPPORT MECHANICAL COMPONENTS FROM CEILINGS, OTHER MECHANICAL OR ELECTRICAL COMPONENTS, AND OTHER NON-STRUCTURAL ELEMENTS.

SECTION 220000 - PLUMBING (CONTINUED):

R. COINCIDENTAL DAMAGE

CONTRACTOR SHALL REPAIR STREETS, SIDEWALKS, DRIVES, PAVING, WALLS AND FINISHES ETC. THAT HE DAMAGES IN THE COURSE OF THIS PROJECT. REPAIR MATERIALS SHALL MATCH EXISTING CONSTRUCTION. REPAIR WORK SHALL MEET REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION AND MEET THE SATISFACTION OF THE ARCHITECT. CONFORM TO REQUIREMENTS OF DIVISION 02 OF THIS SPECIFICATION.

S. EXCAVATION AND BACKFILLING

PERFORM EXCAVATION AND BACKFILL REQUIRED FOR INSTALLATION OF UNDERGROUND WORK UNDER THIS CONTRACT. TRENCHES SHALL BE OF SUFFICIENT WIDTH, CRIB OR BRACE TRENCHES TO PREVENT CAVE-IN OR SETTLEMENT. DO NOT EXCAVATE TRENCHES CLOSE TO COLUMNS AND WALLS OF NEW BUILDING WITHOUT PRIOR CONSULTATION WITH THE ARCHITECT. USE PUMPING EQUIPMENT IF REQUIRED TO KEEP TRENCHES FREE OF WATER. BACKFILL TRENCHES IN MAXIMUM 6" LAYERS OF WELL-TAMPED DRY EARTH IN A MANNER TO PREVENT FUTURE SETTLEMENT.

EXCAVATION AS HEREIN SPECIFIED SHALL BE CLASSIFIED AS COMMON EXCAVATION. COMMON EXCAVATION SHALL COMPRISE THE SATISFACTORY REMOVAL AND DISPOSITION OF MATERIAL OF WHATEVER SUBSTANCES AND OF EVERY DESCRIPTION ENCOUNTERED, INCLUDING ROCK, IF ANY, WITHIN THE LIMITS OF THE WORK AS SPECIFIED AND SHOWN ON THE DRAWINGS. EXCAVATION SHALL BE PERFORMED TO THE LINES AND GRADES INDICATED ON THE DRAWINGS. EXCAVATED MATERIALS WHICH ARE CONSIDERED UNSUITABLE FOR BACKFILL, AND SURPLUS OF EXCAVATED MATERIAL WHICH IS NOT REQUIRED FOR BACKFILL, SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS OWN EXPENSE AND RESPONSIBILITY, AND TO THE SATISFACTION OF THE ARCHITECT.

T. PENETRATIONS

PROVIDE SLEEVES FOR PIPES PASSING THROUGH ABOVE GRADE CONCRETE OR MASONRY WALLS, CONCRETE FLOOR OR ROOF SLABS. SLEEVES ARE NOT REQUIRED FOR CORE DRILLED HOLES IN EXISTING MASONRY WALLS, CONCRETE FLOORS OR ROOFS. PROVIDE 10 GAUGE GALVANIZED STEEL SLEEVES FOR SLEEVES 6" AND SMALLER. PROVIDE GALVANIZED SHEET METAL SLEEVES FOR LARGER THAN 6". SCHEDULE 40 PVC SLEEVES ARE ACCEPTABLE FOR INSTALLATION IN AREAS WITHOUT RETURN AIR PLENUMS.

SEAL ELEVATED FLOOR, EXTERIOR WALL AND ROOF PENETRATIONS WATERTIGHT AND WEATHERTIGHT WITH NON- SHRINK, NON-HARDENING COMMERCIAL SEALANT. PACK WITH MINERAL WOOL AND SEAL BOTH ENDS WITH MINIMUM OF 1/2" OF SEALANT. SEAL AROUND PENETRATIONS OF FIRE RATED ASSEMBLIES. COORDINATE FIRE RATINGS AND LOCATIONS WITH THE ARCHITECTURAL DRAWINGS. REFER TO ARCHITECTURAL SPECIFICATIONS FOR FIRE STOPPINGS. PROVIDE A PRODUCT SCHEDULE FOR UL LISTING, LOCATION, WALL OR FLOOR RATING AND INSTALLATION DRAWING FOR EACH PENETRATION FIRE STOP SYSTEM.

EXTEND PIPE INSULATION FOR INSULATED PIPE THROUGH FLOOR, WALL AND ROOF PENETRATIONS, INCLUDING FIRE RATED WALLS AND FLOORS. THE VAPOR BARRIER SHALL BE MAINTAINED. SIZE SLEEVE FOR A MINIMUM OF 1" ANNULAR CLEAR SPACE BETWEEN INSIDE OF SLEEVE AND OUTSIDE OF INSULATION.

SEAL CONCRETE OR MASONRY EXTERIOR WALL PENETRATIONS BELOW GRADE WITH "WALL PIPES" AND MECHANICAL SLEEVE SEALS. PROVIDE CAST IRON "WALL PIPES" WITH INTEGRAL WATERSTOP RING MANUFACTURED BY JOSAM, JAY R. SMITH, WADE, WATTS OR ZURN. PROVIDE MODULAR MECHANICAL SLEEVE SEALS, MANUFACTURED BY THUNDERLINE / LINK SEAL, CALPICO, INC. AND METRAFLEX.

SEAL ELEVATED CONCRETE SLAB WITH WATER PROOF MEMBRANE PENETRATIONS WITH "WALL PIPES" AND WATER PROOF SEALANT. SECURE WATERPROOF MEMBRANE FLASHING BETWEEN "WALL PIPE" CLAMPING FLANGE AND CLAMPING RING. PROVIDE CAST IRON "WALL PIPES" WITH INTEGRAL WATERSTOP RING MANUFACTURED BY JOSAM, JAY R. SMITH, WADE, WATTS OR ZURN.

PROVIDE SLEEVES FOR HORIZONTAL PIPE PASSING THROUGH OR UNDER FOUNDATION. SLEEVES SHALL BE CAST IRON SOIL PIPE TWO NOMINAL PIPE SIZES LARGER THAN THE PIPE SERVED.

PROVIDE SCHEDULE 40 PVC PIPE SLEEVES FOR VERTICAL PRESSURE PIPE PASSING THROUGH CONCRETE SLAB ON GRADE. SLEEVES SHALL BE ONE NOMINAL PIPE SIZE LARGER THAN THE PIPE SERVED AND TWO PIPE SIZES LARGER THAN PIPE SERVED FOR DUCTILE IRON PIPES WITH RESTRAINING RODS. SEAL WATER-TIGHT WITH SILICONE CAULK.

PROVIDE 1/2" THICK CELLULAR FOAM INSULATION AROUND PERIMETER OF NON-PRESSURE PIPE PASSING THRU CONCRETE SLAB ON GRADE. INSULATION SHALL EXTEND TO 2" ABOVE AND BELOW THE CONCRETE SLAB.

U. ELECTRICAL WIRING

LINE VOLTAGE WIRING SHALL BE PROVIDED BY DIVISION 26. LINE VOLTAGE CONTROL AND INTERLOCK WIRING FOR PLUMBING SYSTEMS SHALL ALSO BE PROVIDED BY DIVISION 26 CONTRACTOR. LOW VOLTAGE CONTROL WIRING SHALL BE PROVIDED BY THE DIVISION 23 CONTRACTOR. FURNISH WIRING DIAGRAMS TO THE DIVISION 26 CONTRACTOR AS REQUIRED FOR PROPER EQUIPMENT HOOKUP. COORDINATE WITH THE DIVISION 26 CONTRACTOR THE ACTUAL WIRE SIZING AMPS FOR PLUMBING EQUIPMENT (FROM THE EQUIPMENT NAMEPLATE) TO ENSURE PROPER INSTALLATION.

V. EQUIPMENT FURNISHED BY OTHERS

FURNISH AND INSTALL ROUGHED-IN WASTES, VENTS AND WATER SERVICES. PROVIDE FINAL CONNECTION TO KITCHEN EQUIPMENT, FURNISHED BY OTHERS, IN LOCATIONS AS INDICATED ON THE DRAWINGS. PROVIDE ACCESSORY ITEMS THAT ARE REQUIRED BUT NOT FURNISHED WITH THE EQUIPMENT, INCLUDING TRAPS, STOP VALVES, PRVS, INDIRECT DRAIN FROM EQUIPMENT TO FLOOR DRAINS, AND ACCESSORY ITEMS INDICATED OR REQUIRED FOR THE PROPER OPERATION OF THE COMPLETE SYSTEM AT THE TERMINATION OF THE WORK.

DIVISION 22 CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECT ROUGH-IN DIMENSIONS, AND SHALL VERIFY SAME WITH ARCHITECT AND/OR EQUIPMENT SUPPLIER PRIOR TO SERVICE INSTALLATIONS.

W. SYSTEM TESTING AND ADJUSTING

UPON COMPLETION OF EACH PHASE OF THE INSTALLATION, TEST EACH SYSTEM IN CONFORMANCE WITH LOCAL CODE REQUIREMENTS AND AS NOTED BELOW. FURNISH LABOR AND EQUIPMENT REQUIRED TO TEST PLUMBING WORK INSTALLED UNDER THIS CONTRACT, AND ASSUME COSTS INVOLVED IN MAKING THE TESTS, AND REPAIRING AND/OR REPLACING DAMAGE RESULTING THEREFROM.

NOTIFY THE ARCHITECT AND THE AUTHORITY HAVING JURISDICTION, THREE (3) WORKING DAYS PRIOR TO MAKING PLUMBING SYSTEM TESTS. LEAVE CONCEALED WORK UNCOVERED UNTIL THE REQUIRED TESTS HAVE BEEN COMPLETED, BUT IF NECESSARY DUE TO CONSTRUCTION PROCEDURE, TESTS ON PORTIONS OF THE WORK MAY BE MADE, AND WHEN SATISFACTORY, THE WORK MAY BE CONCEALED. TEST PIPING BEFORE INSULATION IS INSTALLED, AND BEFORE BACKFILL. PIPES, JOINTS, FLANGES, VALVE STEMS, ETC., SHALL BE LEAK TIGHT. REPAIR OR REPLACE SYSTEM DEFECTS WITH NEW MATERIALS. CAULKING OF DEFECTIVE JOINTS, CRACKS OR HOLES WILL NOT BE PERMITTED. REPEAT TESTS AFTER DEFECTS HAVE BEEN ELIMINATED. MAKE TESTS IN THE PRESENCE OF THE ADMINISTRATIVE AUTHORITY AND/OR THE OWNER'S AUTHORIZED REPRESENTATIVE.

UPON COMPLETION OF THE SYSTEMS INSTALLATION, AND PRIOR TO ACCEPTANCE BY THE ARCHITECT AND ENGINEER, MAKE GENERAL OPERATING TESTS TO DEMONSTRATE THAT EQUIPMENT AND SYSTEMS ARE IN PROPER WORKING ORDER, AND ARE FUNCTIONING IN CONFORMANCE WITH THE INTENT OF THE DRAWINGS AND SPECIFICATIONS. AS A PART OF THESE TESTS, OPEN EVERY WATER OUTLET TO ENSURE COMPLETE SYSTEM FLUSHING. REMOVE AND CLEAN FAUCET AERATORS, CLEAN STRAINERS, LIGHT PILOT LIGHTS, AND OPERATE EVERY PIECE OF EQUIPMENT FURNISHED UNDER THIS CONTRACT TO DEMONSTRATE PROPER FUNCTIONING.

TEST THE DRAINAGE AND VENT SYSTEM BY PLUGGING OPENINGS WITH TEST PLUGS, EXCEPT THOSE AT THE TOP OF THE STACKS. FILL THE SYSTEM WITH WATER; TEST RESULTS WILL BE SATISFACTORY IF THE WATER LEVEL REMAINS STATIONARY FOR NOT LESS THAN ONE (1) HOUR. SUBJECT THE DRAINAGE AND VENT SYSTEM TO A PRESSURE OF AT LEAST TEN (10) FEET OF WATER. IF LEAKS DEVELOP, REPAIR THEM AND REPEAT THE TEST.

TEST THE DOMESTIC WATER SYSTEM BY FILLING IT WITH WATER AND THEN ISOLATING THE SYSTEM FROM ITS SOURCE. KEEP THE SYSTEM CLOSED FOR A PERIOD OF TWENTY-FOUR HOURS, WITH NO FIXTURE BEING USED. THE PRESSURE DIFFERENTIAL FOR THIS TEST PERIOD SHALL NOT EXCEED 10 PSIG. TEST WATER PIPING TO A 125 PSI HYDROSTATIC PRESSURE.

FOR LOW PRESSURE NATURAL GAS SYSTEMS, SUBJECT THE PIPE TO 10 PSIG AIR PRESSURE FOR A PERIOD OF ONE HOUR. THE RESULTANT PRESSURE DIFFERENTIAL FOR THIS PERIOD SHALL BE 0 PSIG. TEST PER GAS COMPANY REQUIREMENTS WHERE REQUIRED.

X. GUARANTEE

THE WORK TO BE PERFORMED UNDER THIS CONTRACT SHALL INCLUDE THE FURNISHING, INSTALLATION, AND CONNECTION OF PLUMBING SYSTEMS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS. BY SIGNING THE CONTRACT, THE CONTRACTOR ACKNOWLEDGES THAT HE HAS ACQUAINTED HIMSELF WITH THE SITE AND THE EXISTING CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED, AND THE DRAWINGS AND SPECIFICATIONS PERTAINING THERETO, AND HE INDICATES THAT HE WILL COMPLY WITH THE REQUIREMENTS AND INTENT OF PERTINENT DOCUMENTS IN THE PERFORMANCE OF THE WORK.

GUARANTEE THAT THE PLUMBING INSTALLED UNDER THIS CONTRACT IS FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF JOB ACCEPTANCE BY THE OWNER. THIS SHALL INCLUDE A GUARANTEE OF FREE CIRCULATION OF LIQUIDS THROUGHOUT THE SYSTEM AS INTENDED WITHOUT LEAKS, EXCESSIVE NOISE, OR WATER HAMMER.

IF DEFECTS OCCUR DURING THE ONE YEAR GUARANTEE PERIOD, REPAIR OR REPLACE SUCH DEFECTS AT NO EXPENSE TO THE OWNER, AND TO THE SATISFACTION OF THE OWNER, ARCHITECT AND ENGINEER.

Perez

ARCHITECTURE  
PLANNING  
INTERIORS  
LANDSCAPE  
CONSTRUCTION  
DESIGN/INTERIOR

PEREZ  
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North Peters Street Dumpster Area Improvements

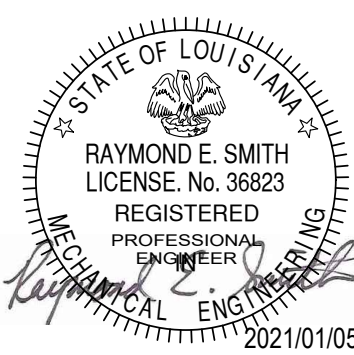
New Orleans, Louisiana 70116

Construction Documents

DATE: 2021-01-05  
PROJECT NO.: 01-14-1034-05

REVISIONS:		
No.	Date	Description

DRAWN BY:  
CHECKED BY:  
SHEET TITLE  
PLUMBING  
SPECIFICATIONS  
SHEET NO.



P-1



SECTION 220000 - PLUMBING (CONTINUED):

Y. PIPING MATERIALS

MATERIALS SPECIFIED OR NOTED ON THE DRAWINGS ARE SUBJECT TO THE APPROVAL OF LOCAL CODE AUTHORITIES. VERIFY APPROVAL BEFORE INSTALLING ANY MATERIAL OR JOINING METHOD.

DOMESTIC WATER (COLD, AND HOT): DOMESTIC WATER PIPING BE TYPE "L" HARD TEMPER COPPER TUBE WITH WROUGHT COPPER FITTINGS AND SOLDERED CONNECTIONS MADE UP WITH 95/5 SOLDER. CONNECTION SHALL BE MADE WITH BRAZED SILVER SOLDER (SILFOS) JOINTS IN CONFORMANCE WITH MANUFACTURER'S INSTRUCTIONS.

UNDERGROUND DOMESTIC WATER PIPING 2" AND SMALLER SHALL BE TYPE "K" SOFT TEMPER COPPER TUBING WITH FLARED COPPER ALLOY FITTINGS AND CONNECTIONS, OR TYPE "K" HARD TEMPER COPPER TUBING WITH CONVENTIONAL WROUGHT COPPER FITTINGS AND SILVER SOLDER (SILFOS) JOINTS. INSTALL AS FEW UNDERGROUND COPPER PIPING JOINTS AS POSSIBLE. AT BUILDING SERVICE ENTRANCE, NO JOINTS SHALL BE INSTALLED UNDER OR WITHIN 5 FEET OF THE BUILDING. INSTALL DOMESTIC WATER PIPING BELOW GRADE OUTSIDE BUILDING AT ADEQUATE DEPTH TO PREVENT FREEZING.

WASTE AND VENT BELOW SLAB: WASTE AND VENT PIPE BELOW SLAB INSIDE BUILDING SHALL BE SERVICE WEIGHT CAST IRON SOIL PIPE WITH HUB AND SPIGOT FITTINGS WITH NEOPRENE GASKET JOINTS, MEETING ASTM A74, MANUFACTURED BY AB & I FOUNDRY, CHARLOTTE OR TYLER PIPE AND BEARING THE TRADEMARK OF THE CISPI AND NSF. HUBLESS WASTE AND VENT PIPE IS NOT PERMITTED BELOW BASE SLAB. PVC SCHEDULE 40 DWV ASTM D2665 PIPE WITH PVC MEETING ASTM B1784, "SOLID WALL" CELL CLASS 12454-B WITH ASTM2665 SOCKET FITTINGS WITH SOLVENT WELD JOINTS IS ALSO PERMITTED WHERE APPROVED BY CODE.

WASTE AND VENT ABOVE SLAB: WASTE AND VENT PIPE ABOVE SLAB INSIDE BUILDING SHALL BE HUBLESS CAST IRON SOIL PIPE AND FITTINGS, MEETING ASTM A888 AND CISPI 301, MANUFACTURED BY AB & I FOUNDRY, CHARLOTTE OR TYLER PIPE AND BEARING THE TRADEMARK OF THE CISPI AND NSF. PVC SCHEDULE 40 DWV ASTM D2665 PIPE WITH PVC MEETING ASTM B1784, "SOLID WALL" CELL CLASS 12454-B WITH ASTM 2665 SOCKET FITTINGS WITH SOLVENT WELD JOINTS IS ALSO PERMITTED WHERE APPROVED BY CODE, EXCEPT WHERE OTHERWISE NOTED ON DRAWINGS.

NATURAL GAS: GAS PIPING ABOVE GROUND SHALL BE SCHEDULE 40 BLACK STEEL WITH MALLEABLE IRON SCREWED FITTINGS, OR STANDARD WELDED FITTINGS.

CONNECTIONS TO PLUMBING FIXTURES AND EQUIPMENT: 1-1/4" AND LARGER WASTE CONNECTIONS FROM FIXTURE TRAPS TO CAST IRON PIPE SHALL BE "DWV" COPPER WITH WROUGHT COPPER DRAINAGE PATTERN FITTINGS WITH COPPER SWEAT OR COMPRESSION JOINTS AT FIXTURE TRAP CONNECTIONS AND THREADED JOINTS AT CONNECTIONS TO CAST IRON PIPE.

Z. PIPING AND EQUIPMENT INSULATION

DOMESTIC COLD WATER, HOT WATER, INDIRECT AND CONDENSATE DRAIN PIPE EXPOSED 2" ONE PIECE FIBERGLASS COVERING WITH FIRE-RESISTANT JACKET WITH SELF-SEALING LAP TO PROVIDE A CONTINUOUS VAPOR BARRIER BY CERTAINTED, OWENS-CORNING OR ARMSTRONG, FOR HOT PIPING, PROVIDE PIPE HANGERS AND RISER CLAMPS SIZED FOR THE OUTSIDE DIAMETER OF PIPING. BUTT INSULATION TO HANGER OR RISER CLAMP FOR VERTICAL PIPE. SEAL EXPOSED INSULATION WITH INSULATION SEALER. EXCEPTION FOR VERTICAL PIPING, PROVIDE CLAMPS SIZED FOR THE OUTSIDE DIAMETER OF THE VERTICAL PIPE AND EXTEND CLAMP THROUGH INSULATION. SEAL PENETRATIONS OF INSULATION AND VAPOR BARRIER WITH WET COAT OF VAPOR BARRIER LAP CEMENT. FOR COLD PIPING AT HANGERS PROVIDE 8" LONG SECTIONS OF HIGH DENSITY, HIGH TEMPERATURE CALCIUM SILICATE BY JOHNS-MANVILLE, FIBERGLASS BY KNAUF, OR 8" LONG STYROFOAM BILLETS BY DOW OR FLEXIBLE UNICELLULAR PIPING INSULATION MEETING ASTM C 534-01A, TYPE I WITH INTEGRAL HIGH DENSITY PIPE SUPPORTS AND ENCASED IN STEEL INSULATION SHIELD BY COOPER B-LINE / ARMACELL OR APPROVED EQUAL. INSULATION SHALL BE CONTINUOUS ALONG THE PIPE SURFACE, EXCEPT AT VALVES, UNIONS, AND WHERE PIPING IS EXPOSED AT FIXTURES. PROVIDE 1" FIBERGLASS INSULATION ON VENT PIPING WITHIN SIX FEET OF VENT THROUGH THE ROOF.

FOR HOT AND COLD WATER PIPING INSTALLED INSIDE MASONRY UNITS OF WALLS, PROVIDE 1/2" FLEXIBLE UNICELLULAR INSULATION BY ARMACELL.

PROVIDE ALUMINUM JACKET FOR OUTDOOR PIPING.

AA. PIPING JOINTS

COPPER TUBING: JOINTS IN HARD TEMPER TUBING SHALL BE SOLDERED JOINTS USING LEADFREE95/5 SOLDER EXCEPT WHERE TUBING IS INSTALLED BELOW GRADE OR BELOW THE BASE SLAB, IN WHICH CASE JOINTS SHALL BE SOLDERED WITH SILVER SOLDER (SILFOS). JOINTS IN SOFT TEMPER COPPER TUBING SHALL BE OF THE FLARED TYPE INSTALLED IN COMPLIANCE WITH THE FITTING MANUFACTURERS RECOMMENDATIONS.

CAST IRON PIPE BELOW GRADE: JOINTS IN BELL AND SPIGOT CAST IRON WASTE AND VENT PIPE SHALL BE NEOPRENE COMPRESSION GASKETS, TYSEAL OR EQUAL.

PVC PIPE: CLEAN JOINTS FREE FROM DEBRIS AND MOISTURE. APPLY PVC PRIMER MEETING ASTM F866 TO EACH JOINT. APPLY SOLVENT CEMENT MEETING ASTM D2564 AND MAKE JOINT WHILE WET AND IN ACCORDANCE WITH ASTM D2885. PIPE ADAPTERS: MAKE CONNECTION OF NEW WASTE PIPE TO NEW OR EXISTING DISSIMILAR WASTE PIPE USING ADAPTER COUPLINGS. PROVIDE FERNCO, PROFLEX 3000 SERIES OR MISSION FLEXSEAL MR56 SERIES WITH NEOPRENE ADAPTER GASKET WITH STAINLESS STEEL SHIELD AND HOSE CLAMPS FOR CONNECTING DISSIMILAR PIPES ABOVE GRADE. PROVIDE FERNCO, 1056 SERIES OR MISSION SEWER COUPLINGS WITH NEOPRENE ADAPTER GASKET AND HOSE CLAMPS FOR CONNECTING DISSIMILAR PIPES BELOW GRADE AND COAT STAINLESS STEEL BANDS WITH MASTIC.

SECTION 220000 - PLUMBING (CONTINUED):

AB. PIPING INSTALLATION

GENERAL: CLEAN PIPE THOROUGHLY PRIOR TO INSTALLATION. REAM ENDS OF PIPE TO REMOVE BURRS. CUT PIPE ACCURATELY TO MEASUREMENTS TAKEN ON THE JOB. INSTALL WITH ADEQUATE CLEARANCE FOR INSTALLATION OF COVERINGS WHERE REQUIRED. PIPE SHALL NOT BE SPRUNG OR BENT. NEATLY ALIGN PIPE, CONNECT IT SECURELY, AND SUPPORT IT FROM THE BUILDING STRUCTURE WITH HANGERS AS SPECIFIED BELOW. PROVIDE CHROME-PLATED ESCUTCHEONS ON PIPES PASSING THROUGH CEILINGS, FLOORS OR WALLS OF FINISHED SPACES. RUN PIPES FREELY THROUGH FLOOR AND WALL PENETRATIONS USING PIPE SLEEVES. DO NOT GROUT IN PLACE UNLESS REQUIRED FOR STRUCTURAL FIRE INTEGRITY. INSTALL PIPE CONCEALED IN FINISHED SPACES WHEREVER POSSIBLE. USE A DIELECTRIC UNION WHERE FERROUS AND COPPER PIPE CONNECT. DIELECTRIC UNION SHALL HAVE A ZINC-PLATED STEEL BODY, A THREADED NYLON INSERT, AND INSULATING PRESSURE GASKET. NO FERROUS METAL-TO-COPPER CONNECTION MADE WITHOUT INSULATING UNIONS WILL BE ALLOWED.

HANGER & SUPPORTS: PIPE HANGERS SHALL BE AS DESCRIBED IN THE SPECIFICATIONS BY BLINE OR EQUAL BY ANVIL, MICHIGAN, TRUSCON, OR UNISTRUT. CONNECT HANGERS TO THE STRUCTURE WITH SIDE BEAM CONNECTORS AND ALL THREAD HANGER RODS. PROVIDE ENGINEERED SUPPORT STRUTS BETWEEN JOISTS AND OTHER STRUCTURAL MEMBERS AS REQUIRED TO PROVIDE A RIGID HANGING INSTALLATION. DO NOT HANG PIPES FROM OTHER PIPES, CONDUIT OR DUCTWORK. PROVIDE HANGER RODS AND SPACE HANGERS AT INTERVALS AS SPECIFIED IN "HANGER SPACING". PROVIDE SUPPORT WITHIN 1' OF EACH ELBOW AND TEE. PROVIDE SUPPORTS WITHIN 1' OF EACH EQUIPMENT CONNECTION. PROVIDE TWO NUTS ON THREADED SUPPORTS TO SECURELY FASTEN THE SUPPORT. INSTALL HANGER TYPES OR SUPPORTS FOR VARIOUS PIPING AS FOLLOWS:

COPPER TUBE: ADJUSTABLE BAND HANGERS FOR BARE COPPER TUBE 3" AND SMALLER SHALL BE B-LINE #B3170 CT COPPER PLATED ADJUSTABLE BAND SWIVEL RING TYPE. ADJUSTABLE BAND HANGERS FOR INSULATED COPPER TUBE AND 3" SMALLER SHALL BE B-LINE #B3170 NF ADJUSTABLE BAND SWIVEL RING TYPE. CLEVIS HANGERS FOR INSULATED COPPER TUBE 4" AND LARGER SHALL BE B-LINE #B3100 GALVANIZED STEEL CLEVIS TYPE. SUPPORT EXPOSED COPPER TUBE 2" AND SMALLER TO WALLS OR IN CHASES WITH B-LINE #B3198RCT COPPER COATED EXTENSION SPLIT RING PIPE CLAMPS, 3/8" THREADED ROD AND B-LINE #B3199CT CEILING FLANGES. SUPPORT COPPER TUBE IN CHASES AND WALLS AT PLUMBING FIXTURES WITH PLASTIC OR COPPER BRACKETS SECURED TO STRUCTURE AND U-BOLTS SIZED TO BARE ON THE PIPE. RISER CLAMPS TO SUPPORT VERTICAL COPPER TUBE SHALL BE B-LINE #B373TCT COPPER COATED STEEL, CUT INSULATION, SEAL VAPOR BARRIER, AND ATTACH TO BARE TUBE.

CAST IRON PIPE: ADJUSTABLE BAND HANGERS FOR 2" AND SMALLER, CLEVIS HANGERS FOR 3" AND LARGER SHALL BE B-LINE #B3100 GALVANIZED STEEL CLEVIS TYPE. RISER CLAMPS TO SUPPORT VERTICAL PIPE SHALL BE B-LINE #B3373 GALVANIZED STEEL.

PVC PIPE: ADJUSTABLE BAND HANGERS FOR 3" AND SMALLER, CLEVIS HANGERS FOR 4" AND LARGER SHALL BE B-LINE #B3100 GALVANIZED STEEL CLEVIS TYPE. RISER CLAMPS TO SUPPORT VERTICAL PIPE SHALL BE B-LINE #B3373 GALVANIZED STEEL.

INSULATION PROTECTION SHIELDS: B-LINE #B3151 OF 18 GAUGE GALVANIZED SHEET METAL. SHIELD SHALL COVER HALF OF THE CIRCUMFERENCE OF THE PIPE AND SHALL BE OF LENGTH INDICATED BY MANUFACTURER FOR PIPE SIZE AND THICKNESS OF INSULATION.

HANGER SPACING, ROD SIZES & CONNECTORS: CONNECT RODS TO STEEL BEAMS OR JOISTS WITH B-LINE #B3031 OR #B3033BEAM CLAMPS AS REQUIRED. CONNECT RODS TO CONCRETE WITH B-LINE #3014 MALLEABLE IRON SINGLE TYPE INSERTS WITH MALLEABLE IRON NUT. CONNECT RODS IN WOOD CONSTRUCTION WITH B-LINE #B3058 SIDE BEAM CONNECTORS. HANG AND SUPPORT PIPING WITH SPACING AND ROD SIZES AS FOLLOWS:

COPPER TUBE: 1-1/2" AND SMALLER - EVERY 6' WITH 3/8"HANGER RODS; 2" EVERY 10' WITH 3/8"HANGER RODS; 2-1/2" EVERY 10' WITH 3/8" HANGER RODS; 3" EVERY 10' WITH 1/2" RODS, 4" EVERY 10' WITH 5/8" HANGER RODS. SUPPORT VERTICAL COPPER TUBE EVERY 10'.

CAST IRON PIPE: EVERY 10' AND WITHIN 1' OF EACH JOINT. 2" AND SMALLER WITH 3/8" HANGER RODS; 3" WITH 1/2" HANGER RODS; 4" WITH 5/8" HANGER RODS; 6" WITH 3/4" HANGER RODS; 8" AND LARGER WITH 7/8" HANGER RODS. SUPPORT VERTICAL CAST IRON PIPE EVERY 15'.

PVC PIPE: SUPPORT ALL PIPES SIZES EVERY 4'. 1-1/2" AND SMALLER WITH 3/8" HANGER RODS; 2" WITH 1/2"HANGER RODS; 2-1/2" AND 3" WITH 1/2" HANGER RODS, 4" AND LARGER WITH 5/8" HANGER RODS. SUPPORT VERTICAL PVC PIPE EVERY 4'.

SUPPORTS ON FLOOR: SUPPORT PIPING FROM THE FLOOR WHERE REQUIRED FOR FERROUS PIPE OR INSULATED COPPER TUBE. SHALL BE B-LINE B3093 GALVANIZED STEEL WITH PIPE SADDLE, THREADED SHANK FOR HEIGHT ADJUSTMENT AND FLOOR STAND SECURED TO THE FLOOR.

BELOW GROUND INSTALLATION FOR SOIL, WASTE AND STORM: INSTALL SOIL AND WASTE PIPING TO A UNIFORM SLOPE OF NOT LESS THAN 1/8" PER FOOT FOR PIPING 4" OR LARGER, AND NOT LESS THAN 1/4" PER FOOT FOR PIPING 3" OR SMALLER. SLOPE STORM PIPING AT 1/8" PER FOOT. LAY PIPE AT UNIFORM SLOPE FREE FROM SAGS. WITH HUB END UPSTREAM. MAKE CHANGES IN DIRECTION FROM HORIZONTAL TO VERTICAL, AT FIXTURE BRANCHES AND OTHER BRANCH CONNECTIONS WITH SANITARY "TEES" OR SHORT SWEEP "ELLS". MAKE CHANGES IN DIRECTION FROM VERTICAL TO HORIZONTAL OR HORIZONTAL TO HORIZONTAL WITH LONG RADIUS FITTINGS, LONG SWEEPING "ELLS", COMBINATION "Y" AND 1/8 BEND" FITTINGS, OR 45 DEGREE "ELLS" (1/8 BEND FITTINGS), 1/6 BEND OR 1/16 BEND AND V FITTINGS. INSTALL PIPE WITH THE BARREL OF THE PIPE ON FIRM, SOLID EARTH FOR ITS ENTIRE LENGTH, AND EXCAVATE HOLES FOR THE PIPE BELLS. LAY PIPE IN A STRAIGHT UNE AND INSTALL WITH UNIFORM GRADE TO UNE WITH BATTEN BOARDS SET NOT MORE THAN 24-0" APART. CLOSE OPEN ENDS OF PIPE WITH A STOPPER WHEN PIPE LAYING IS NOT IN PROGRESS. CENTER SPIGOTS ACCURATELY IN BELLS FOR UNIFORM CALKING. PROVIDE A SMOOTH AND UNIFORM INVERT IN THE SYSTEM. DRILLING OR TAPPING OF SOIL AND WASTE LINES, AND SADDLE HUBS AND BANDS ARE NOT PERMITTED. LOCATE AND INSTALL SOIL AND WASTE LINES AS INDICATED ON THE DRAWINGS. DETERMINE EXACT LOCATIONS IN SUCH A MANNER AS TO MAINTAIN PROPER CLEARANCE. PRIOR TO INSTALLATION OF ANY BUILDING DRAIN PIPE, VERIFY ELEVATION OF CONNECTION POINT OF EXISTING SEWER, SERVICE UNE OR EXISTING TENANT CONNECTIONS INDICATED ON THE DRAWINGS. IF THE INSTALLATION WILL NOT TIE INTO THE INDICATED INVERT ELEVATION POINT WHILE MAINTAINING PROPER FALL, NOTIFY ARCHITECT SO THAT AN ALTERNATIVE MAY BE DETERMINED.

ABOVE GROUND INSTALLATION FOR SOIL, WASTE AND STORM: INSTALL SOIL AND WASTE PIPING TO A UNIFORM SLOPE OF NOT LESS THAN 1/8" PER FOOT FOR PIPING 4" OR LARGER, AND NOT LESS THAN 1/4" PER FOOT FOR PIPING 3" OR SMALLER. SLOPE STORM PIPING AT 1/8" PER FOOT. LAY PIPE AT UNIFORM SLOPE FREE FROM SAGS. SUPPORT PIPE WITHIN 12" OF EACH JOINT. MAKE CHANGES IN DIRECTION FROM HORIZONTAL TO VERTICAL, AT FIXTURE BRANCHES AND OTHER BRANCH CONNECTIONS WITH SANITARY "TEES" OR SHORT SWEEP "ELLS". MAKE CHANGES IN DIRECTION FROM VERTICAL TO HORIZONTAL OR HORIZONTAL TO HORIZONTAL WITH LONG RADIUS FITTINGS, LONG SWEEPING "ELLS", COMBINATION "Y" AND 1/8 BEND" FITTINGS, OR 45 DEGREE "ELLS" (1/8 BEND FITTINGS), 1/6 BEND OR 1/16 BEND AND "Y" FITTINGS. PROVIDE A SMOOTH AND UNIFORM INVERT IN THE SYSTEM. DRILLING OR TAPPING OF SOIL AND WASTE LINES, AND SADDLE HUBS AND BANDS ARE NOT PERMITTED. LOCATE AND INSTALL SOIL AND WASTE LINES AS INDICATED ON THE DRAWINGS. DETERMINE EXACT LOCATIONS IN SUCH A MANNER AS TO MAINTAIN PROPER CLEARANCE.

PLUMBING VENT: CONNECT PLUMBING VENT PIPES TO FIXTURE DRAIN PIPES AS INDICATED ON THE DRAWINGS OR AS REQUIRED BY THE INSTALLATION PRACTICES ADOPTED AND ENFORCED BY LOCAL CODES OFFICIAL, AND EXTEND VENT PIPES FULL SIZE THROUGH THE ROOF UNE. GRADE PIPE TO A UNIFORM SLOPE FREE FROM SAGS. SUPPORT PIPE WITHIN 12" OF EACH JOINT. MAKE CHANGES IN DIRECTION FROM HORIZONTAL TO VERTICAL, AT FIXTURE BRANCHES AND OTHER BRANCH CONNECTIONS WITH SANITARY "TEES" OR SHORT SWEEP "ELLS". MAKE CHANGES IN DIRECTION FROM VERTICAL TO HORIZONTAL OR HORIZONTAL TO HORIZONTAL WITH LONG RADIUS FITTINGS, LONG SWEEPING "ELLS", COMBINATION "Y" AND 1/8 BEND" FITTINGS, OR 45 DEGREE "ELLS" (1/8 BEND FITTINGS), 1/6 BEND OR 1/16 BEND AND "Y" FITTINGS. PROVIDE A SMOOTH AND UNIFORM INVERT IN THE SYSTEM. DRILLING OR TAPPING OF SOIL AND WASTE LINES, AND SADDLE HUBS AND BANDS ARE NOT PERMITTED. LOCATE AND INSTALL SOIL AND WASTE LINES AS INDICATED ON THE DRAWINGS. DETERMINE EXACT LOCATIONS IN SUCH A MANNER AS TO MAINTAIN PROPER CLEARANCE.

DOMESTIC WATER: ARRANGE COLD AND HOT WATER PIPING TO DRAIN AT THE LOWEST POINT IN EACH SYSTEM. INSTALL AT LEAST ONE PIPE UNION ADJACENT TO ALL SHUTOFF VALVES, AT CONNECTION POINTS OF EACH PIECE OF EQUIPMENT, AND ELSEWHERE IN THE SYSTEM WHERE REQUIRED TO ALLOW PROPER MAINTENANCE. PROVIDE UNIONS OF THE GROUND JOINT TYPE. MAKE ALLOWANCE FOR EXPANSION AND CONTRACTION WHERE REQUIRED BY THE INSTALLATION. WHERE WATER PIPING OCCURS IN EXTERIOR WALLS, HOLD PIPE AS CLOSE AS POSSIBLE TO THE INTERIOR FACE OF WALL AND INSTALL INSULATION BATT OR OTHER INSULATION (MINIMUM R8) BETWEEN PIPING AND THE EXTERIOR WALL FACE.

NATURAL GAS: PITCH NATURAL GAS PIPING, AND PROVIDE ACCESSIBLE DIRT LEGS AT THE LOW POINTS. TAKE BRANCH PIPES OFF THE TOP OR SIDES OF MAIN PIPES, TO PREVENT ACCUMULATION OF WATER IN THE BRANCHES. INSTALL GAS PIPING VALVES AND UNIONS ONLY IN ACCESSIBLE LOCATIONS. DO NOT INSTALL GAS PIPE BELOW THE BASE SLAB.

AC. PIPING SANITIZATION

SANITIZE THE ENTIRE DOMESTIC WATER PIPING SYSTEM (COLD, HOT, AND HOT WATER RETURN) WITH A SOLUTION CONTAINING NOT LESS THAN 50 PPM AVAILABLE CHLORINE. KEEP SOLUTION IN THE SYSTEM FOR A MINIMUM OF 24 HOURS, WITH EACH VALVE BEING OPERATED SEVERAL TIMES DURING THE PERIOD. AFTER COMPLETION, FLUSH SYSTEM WITH CITY WATER UNTIL CHLORINE RESIDUAL IS LOWERED TO INCOMING CITY WATER LEVEL.

AD. PIPE AND VALVE MARKERS

PROVIDE MANUFACTURER'S STANDARD PRE-PRINTED, SEMI-RIGID SNAP-ON OR PERMANENT ADHESIVE, PRESSURE-SENSITIVE VINYL PIPE MARKERS. PIPE MARKERS SHALL BE COLOR-CODED COMPLYING WITH ANSI A13.1.

INSTALL PIPE MARKERS ON EACH PLUMBING PIPING SYSTEM AND NORMAL DIRECTION OF FLOW. INCLUDE ARROWS TO SHOW

LOCATE PIPE MARKERS AND COLOR BANDS WHEREVER PIPING IS EXPOSED TO VIEW IN OCCUPIED SPACES, MACHINE ROOMS, ACCESSIBLE MAINTENANCE SPACES (SHAFTS, TUNNELS, PLENUMS) AND EXTERIOR NON-CONCEALED LOCATIONS.

PROVIDE PLASTIC LAMINATE OR BRASS VALVE TAG ON EVERY VALVE, COCK AND CONTROL DEVICE IN EACH PLUMBING PIPING SYSTEM. EXCLUDE CHECK VALVES, VALVES WITHIN FACTORY FABRICATED EQUIPMENT UNITS, PLUMBING FIXTURE FAUCETS, CONVENIENCE AND LAWN WATERING HOSE BIBBS, AND SHUT-OFF VALVES AT PLUMBING FIXTURES AND SIMILAR ROUGH-IN CONNECTIONS OF END-USE FIXTURES AND UNITS.

AE. TRAPS

PROVIDE CONVENTIONAL "P" TYPE TRAP, WATER-SEALED SELF-CLEANING DESIGN. FULL "S" TRAPS OR TRAP STANDARDS SHALL BE USED ONLY WHERE SPECIFICALLY CALLED FOR ON THE DRAWINGS OR ELSEWHERE IN THIS SPECIFICATION. TRAP WATER SEALS SHALL NOT BE LESS THAN 2", AND DEEP SEAL TRAPS SHALL BE PROVIDED WHERE SPECIFIED OR INDICATED. EACH TRAP NOT INTEGRAL WITH THE FIXTURE OR FLOOR DRAIN OR INSTALLED BELOW THE BASE SLAB SHALL BE PROVIDED WITH AN ACCESSIBLE CLEANOUT OF ADEQUATE SIZE. PROVIDE TRAP PRIMERS WHERE REQUIRED BY CODE AND WHERE INDICATED ON THE DRAWINGS.

SECTION 220000 - PLUMBING (CONTINUED):

AF. CLEANOUTS

MATERIALS SHALL BE BY ONE MANUFACTURER IF POSSIBLE. ACCEPTABLE MANUFACTURERS ARE, JOSAM, SMITH, WADE, WATTS, AND ZURN. PROVIDE LONG SWEEP FITTINGS FOR CLEANOUT EXTENSIONS; SHORT SWEEPS AT START OF RUNS OR CHANGE IN DIRECTION AND COMBINATION WYE AND EIGHT BEND FITTINGS IN HORIZONTAL RUNS. INSTALL CLEANOUTS WITH A MINIMUM OF 18" CLEAR ALL AROUND, CONSULT LOCAL CODES FOR OTHER REQUIREMENTS, FOR EASY SYSTEM MAINTENANCE. INSTALL PLUG WITH TEFLON JOINT COMPOUND.

EXTERIOR CLEANOUTS: SHALL BE AS SCHEDULED ON THE DRAWINGS. INSTALL CLEANOUTS AT POINTS AS NOTED ON THE DRAWINGS, AT THE BUILDING EXIT, AT A MINIMUM OF EVERY 100 FEET IN HORIZONTAL SOIL, WASTE AND STORM SERVICE LINES. EMBED EACH EXTERIOR CLEANOUT IN AN 18" X 18" X 8" BLOCK OF CONCRETE, FLUSH WITH FINISHED GRADE.

AG. VALVES, STRAINERS, HOSE BIBBS, AND UNIONS

PLUMBING SYSTEM VALVES SHALL BE DESIGNED FOR 125 PSI STEAM WORKING PRESSURE AND 200 PSI COLD WATER PRESSURE. INSTALL VALVES ON THE HOT AND COLD WATER LINES AT THE WATER HEATER CONNECTIONS AND OTHER ITEMS OF EQUIPMENT. AT BRANCHES FROM MAINS SERVING GROUPS OF FIXTURES, AND AT OTHER PLACES INDICATED OR REQUIRED BY THE INSTALLATION TO ALLOW EASE OF FUTURE MAINTENANCE. SUBMIT CERTIFICATION THAT VALVES, FITTINGS AND SPECIALTIES COMPLY WITH NSF 61 ANNEX G AND / OR NSF 372. EXCEPT FOR THE FOLLOWING: HOSE BIBBS, HYDRANTS, BACKFLOW PREVENTERS ISOLATING IRRIGATION OR MECHANICAL MAKE-UP SYSTEMS, EMERGENCY MIXING VALVES AND TRAP PRIMERS.

GATE VALVES 2" AND SMALLER: CLASS 125, RISING STEM. SOLDERED LEAD FREE CAST BRONZE BODY AND PARTS, SWEAT ENDS, WITH WEDGE DISC. BY APOLLO # 102S-LF, HAMMOND # UP-668, MILWAUKEE # UP668 OR NIBCO # S-113-LF

BALL VALVES 2" AND SMALLER: MAY BE USED IN LIEU OF GATE VALVES UP TO 2") CLASS 150, TWO PIECE, LEAD FREE, CAST BRONZE BODY, WITH SWEAT ENDS. CHROME PLATED BRONZE BALL WITH CONVENTIONAL PORT, 600 PSI, BLOW-OUT PROOF STEM BY APOLLO # 70-LF-200, HAMMOND # UP8501, MILWAUKEE # UPBA-150.

SWING CHECK VALVES 2" AND SMALLER: CLASS 125, LEAD FREE CAST BRONZE BODY AND WITH SWEAT ENDS BY APOLLO # 163S-LF, MILWAUKEE #UP-1509, OR NIBCO # S-413-Y-LF. INSTALL IN HORIZONTAL PIPE RUNS.

LIFT CHECK VALVES 2" AND SMALLER: CLASS 125, LEAD FREE CAST BRONZE BODY, STAINLESS STEEL SPRING AND WITH SWEAT ENDS BY HAMMOND # LP-947 OR NIBCO # S-413-Y-LF. INSTALL IN VERTICAL PIPE OR IN HORIZONTAL RUNS WHERE REQUIRED.

GAS COCKS 2" AND SMALLER: LUBRICATED TYPE WITH SEMI-STEEL BODY AND FULL AREA RECTANGULAR PORT WITH SCREWED ENDS BY HOMESTEAD # 601, MILLIKEN #200M OR RM ENERGY SYSTEMS # D125.

GAS COCKS 2-1/2" AND LARGER: LUBRICATED TYPE WITH SEMI-STEEL BODY AND FULL AREA RECTANGULAR PORT WITH FLANGED ENDS BY HOMESTEAD # 602, MILLIKEN #200MF OR RM ENERGY SYSTEMS # D126.

GAS LINE PRESSURE REGULATORS: GAS LINE PRESSURE REGULATORS SHALL BE BY AMERICAN METER COMPANY, FISHER, ITRON, MAXITROL OR SENSUS WITH CAPACITIES AS SCHEDULED ON THE DRAWINGS. REGULATORS SHALL BE SINGLE STAGE, STEEL JACKETED, CORROSION RESISTANT TYPE WITH INTERSTITIAL RELIEF VALVE WITH ATMOSPHERIC VENT, ELEVATION COMPENSATOR; WITH THREADED ENDS, FOR INLET AND OUTLET.

STRAINERS: STRAINERS 2" AND SMALLER SHALL BE WATTS #LFS777SI WITH LEAD FREE CAST BRONZE BODY AND SOLDERED ENDS, BRASS CAP AND MONEL-40 MESH SCREEN. STRAINERS 2-1/2"AND LARGER SHALL BE WATTS #77F-DI-FDA-125 WITH FLANGED IRON BODY WITH FUSED FDA EPOXY COATING, BOLTED IRON CAP AND STAINLESS STEEL SCREEN WITH 1/16" PERFORATIONS. STRAINERS SIZE 2-1/2" AND LARGER SHALL HAVE A 1" BLOW-OFF UNE WITH A 1" GATE VALVE CONNECTED TO THE BLOW-OFF CONNECTION AND SHALL BE EXTENDED TO THE NEAREST FLOOR DRAIN.

DRAIN VALVES AND INTERIOR HOSE BIBBS: EQUAL BY WOODFORD OR WATTS. AS SPECIFIED ON THE DRAWINGS BY PRIER OR

YARD HYDRANTS: AS SPECIFIED ON THE DRAWINGS BY PRIER OR EQUAL WOODFORD, JOSAM, PRIER, WADE, WATTS OR ZURN. PROVIDE ACCESSIBLE SHUTOFF VALVE.

UNIONS: FERROUS UNIONS SHALL BE CRANE OR EQUAL, COMBINATION IRON AND BRASS, GROUND JOINT WITH SCREWED ENDS. COPPER UNIONS SHALL BE STREAMLINE OR EQUAL, CAST BRONZE SWEAT TYPE WITH GROUND JOINT. FERROUS TO COPPER UNIONS SHALL BE UNIVERSAL CONTROLS OR EQUAL, DIELECTRIC TYPE WITH THREADED NYLON INSERT.

AH. SYSTEM ACCESSORIES

THERMOMETERS SHALL BE AMERICAN 3" BI-METAL DIAL TYPE WITH SEPARABLE SOCKET, AND SHALL BE INSTALLED WHERE INDICATED OR REQUIRED.

PRESSURE GAUGES SHALL BE ASHCROFT 3" DIAL TYPE WITH SHUT-OFF COCK, AND SHALL BE INSTALLED WHERE INDICATED OR REQUIRED.

AI. PLUMBING FIXTURES

FURNISH AND INSTALL COMMERCIAL GRADE PLUMBING FIXTURES, SEE THE DRAWINGS FOR QUANTITIES AND DESCRIPTIONS. PROVIDE STAINLESS STEEL SINKS AS SCHEDULED BY ELKAY OR EQUAL BY JUST. PROVIDE ELECTRIC WATER COOLERS AS SCHEDULED BY ELKAY OR APPROVED EQUAL BY ACORN / AQUA, HALSEY TAYLOR OR HAWS. PROVIDE MOP SINKS AS SCHEDULED BY STERNWILLIAMS OR EQUAL BY ACORN ENGINEERING CO., FIAT OR FLORESTONE. PROVIDE

FIXTURES SHOWN ON THE DRAWINGS OR SPECIFIED HEREIN SHALL BE FURNISHED AND INSTALLED, SET FIRM AND TRUE, CONNECTED TO REQUIRED PIPING SERVICES, THOROUGHLY CLEANED, LEFT CLEAN AND READY FOR USE. EXPOSED FITTINGS AND PIPING AT THE FIXTURES SHALL BE CHROME-PLATED, AND WATER SUPPLY PIPING SHALL BE VALVED AT EACH FIXTURE.

AJ. PLUMBING FIXTURE TRIM

SUBMIT CERTIFICATION THAT FAUCETS AND TRIM COMPLY WITH NSF 61 ANNEX G AND / OR NSF 372. EXCEPT FOR THE FOLLOWING: FAUCETS NOT USED FOR DRINKING WATER OR COOKING, SHOWER VALVES AND HEADS OR FLUSH VALVES.

FIXTURE TRIM SHALL HAVE THE MANUFACTURER'S NAME STAMPED CLEARLY AND VISIBLY ON EACH ITEM.

PROVIDE FAUCETS AS SCHEDULED ON DRAWINGS: BY CHICAGO, SPEAKMAN, ZURN, OR T&S BRASS.

PROVIDE LAVATORY FAUCETS AS SCHEDULED ON DRAWINGS: BY DELTA OR EQUAL BY SYMMONS OR MOEN.

FIXTURE P-TRAPS SHALL BE 17 GAUGE BRASS BODY WITH CLEANOUT, 17 GAUGE SEAMLESS TUBULAR WALL BEND WITH CAST BRASS SLIP NUT, SHALLOW STEEL FLANGE, ALL CHROME PLATED: BY MCGUIRE, BRASS CRAFT, DEARBORN BRASS, EBC, PROFLO, WATTS BRASS AND TUBULAR OR ZURN.

AK. WATER HEATER

WATER HEATER SHALL BE BY A.O.SMITH, BRADFORD-WHITE, LOCHINVAR, STATE, RHEEM OR RUUD WITH CAPACITY AS SCHEDULED ON THE DRAWINGS. UNIT SHALL BE COMPLETE WITH INTEGRAL THERMOSTATS AND CONTROLS, AND TEMPERATURE & PRESSURE RELIEF VALVE. WATER HEATER SHALL BE UL LISTED AND MEET ASHRAE 90.1B STANDARDS FOR THERMAL EFFICIENCY. RELIEF VALVE: WATER HEATER RELIEF VALVE SHALL BE OF THE TEST LEVER TYPE, WITH AUTOMATIC RESET, COMBINATION TEMPERATURE AND PRESSURE RELIEF, APPROVED AND STAMPED BY THE AMERICAN GAS ASSOCIATION. THE TEMPERATURE SHALL BE NORMALLY SET TO RELIEVE AT 210°F AND THE PRESSURE RELIEF SHALL BE AT 125 PSI. THE RELIEF VALVE DISCHARGE LINE SHALL BE PIPED DOWN AND TERMINATE 6" ABOVE INDIRECT DRAIN.

VACUUM RELIEF VALVE: WATTS #N36 OR WILKINS #VR-10 WITH BRONZE BODY AND SILICON DISC. VALVE SHALL OPEN AT 0.5"HG VACUUM AND BE RATED FOR 200 PSIG WORKING PRESSURE AND 250T TEMPERATURE. INSTALL IN COLD WATER SUPPLY TO EACH WATER HEATER DOWNSTREAM OF THE SHUTOFF AND CHECK VALVES.

AL. HEAT TRACE

HEAT TRACE FOR FREEZE PROTECTION SHALL BE SELF-REGULATING, PARALLEL RESISTANCE ELECTRIC HEATING CABLES AND COMPLY WITH IEEE 515.1. THE HEATING ELEMENT SHALL BE A PAIR OF PARALLEL NO. 16 AWG NICKEL COATED, STRANDED COPPER BUS WIRES EMBEDDED IN CROSSLINKED CONDUCTIVE POLYMER CORE, WHICH VARIES HEAT OUTPUT IN RESPONSE TO TEMPERATURE ALONG ITS LENGTH. TERMINATE WITH WATERPROOF, FACTORY-ASSEMBLED, NONHEATING LEADS WITH CONNECTORS AT ONE END, AND SEAL THE OPPOSITE END WATERTIGHT. CABLE SHALL BE CAPABLE OF CROSSING OVER ITSELF ONCE WITHOUT OVERHEATING. THE ELECTRICAL INSULATING JACKET SHALL BE FLAME RETARDANT POLYOLEFIN AND THE CABLE COVER SHALL BE TINNED COPPER BRAID AND POLYOLEFIN OUTER JACKET WITH ULTRAVIOLET INHIBITOR. THE MAXIMUM HEAT OUTPUT SHALL BE SWIFT, VOLTAGE OF 120V AND SINGLE PHASE. A MICROPROCESSOR BASE CONTROL SHALL BE SUPPLIED THAT HAS A MINIMUM OF 24-HOUR BATTERY CARRYOVER WITH MINIMUM OF FOUR SEPARATE SCHEDULES.

Perez

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North Peters Street Dumpster Area Improvements  
New Orleans, Louisiana 70116  
Construction Documents

DATE: 2021-01-05  
PROJECT NO.: 01-14-1034-05

REVISIONS:

No.	Date	Description

DRAWN BY:  
CHECKED BY:

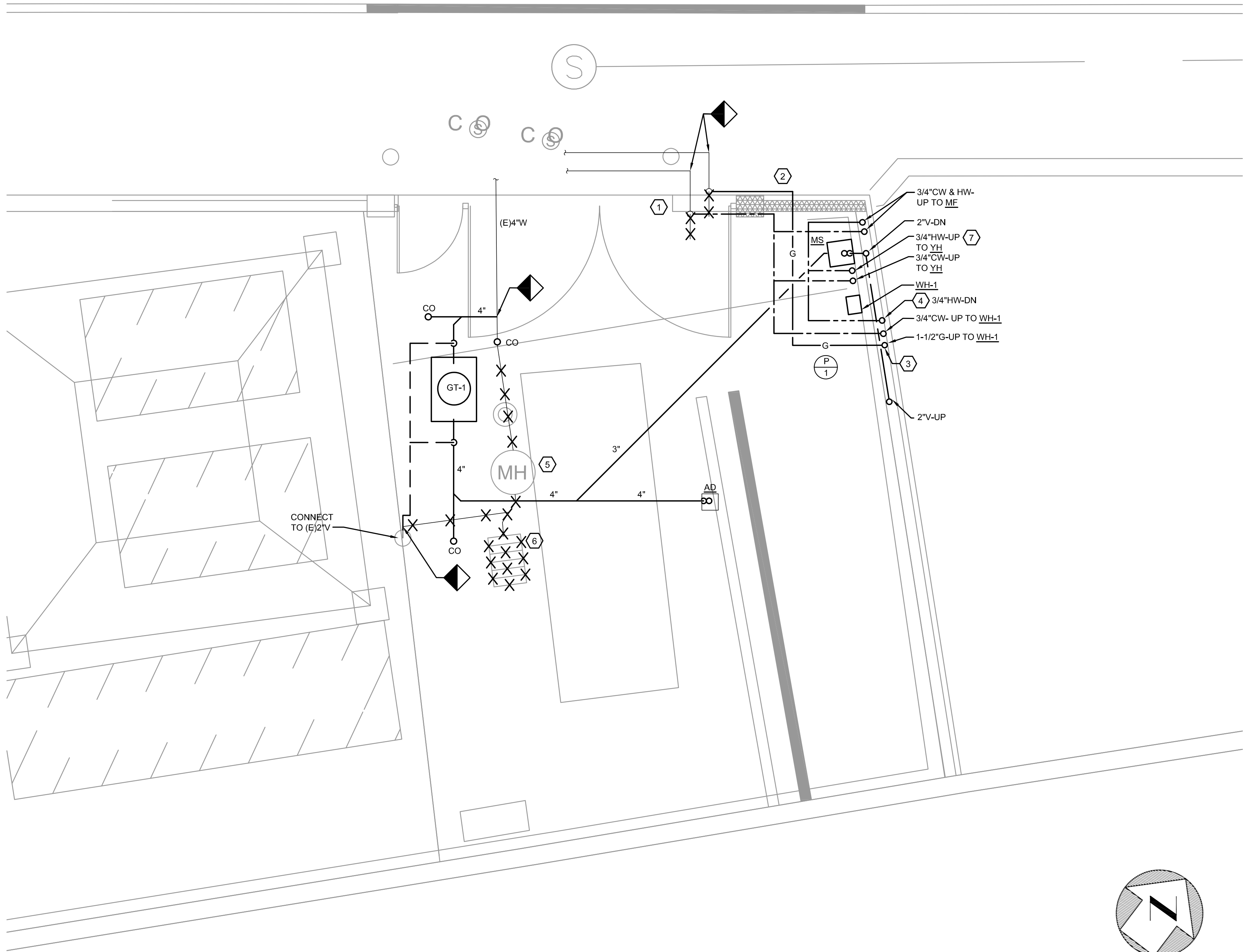
SHEET TITLE  
PLUMBING  
SPECIFICATIONS

SHEET NO

P-2







PLUMBING PLAN

SCALE: 1/4" = 1'-0"

- # SHEET REFERENCE NOTES:
- 1 DEMOLISH EXISTING INCOMING WATER AND GAS TO MAKE ROOM FOR NEW GATE LOCATION. COORDINATE SHUT-OFF OF INCOMING GAS AND WATER FOR DEMOLITION WITH OWNER TO LIMIT DOWN TIME.
  - 2 ROUTE NEW 3/4" DOMESTIC COLD WATER UNDERGROUND TO NEW YARD HYDRANTS, YH, MOP SINK, MS, AND WATER HEATER, WH-1.
  - 3 ROUTE 1-1/4" GAS UNDERGROUND FROM EXISTING GAS LINE IN SIDEWALK TO NEW WATER HEATER, WH-1. ADD GAS REGULATOR, SHUT-OFF VALVE AND UNION UNDER WATER HEATER. SEE DETAIL.
  - 4 ROUTE NEW 3/4" DOMESTIC HOT WATER FROM WATER HEATER UNDERGROUND TO NEW YARD HYDRANT, YH, AND MOP SINK, MS.
  - 5 EXISTING GREASE TRAP. PLUG AND CAP INCOMING AND OUTGOING WASTE LINES OF GREASE TRAP. SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
  - 6 REMOVE EXISTING DRAIN AND ALL ASSOCIATED PIPING BACK TO EXISTING GREASE TRAP. REMEDIATE SOIL AND CONCRETE ACCORDING TO ARCHITECTURAL INSTRUCTIONS.
  - 7 SHUT-OFF VALVES FOR YARD HYDRANTS SHALL BE IN A VALVE BOX.

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North Peters Street Dumpster Area Improvements

New Orleans, Louisiana 70116

Construction Documents

DATE: 2021-01-05  
PROJECT NO.: 01-14-1034-05

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DRAWN BY:  
CHECKED BY:  
SHEET TITLE

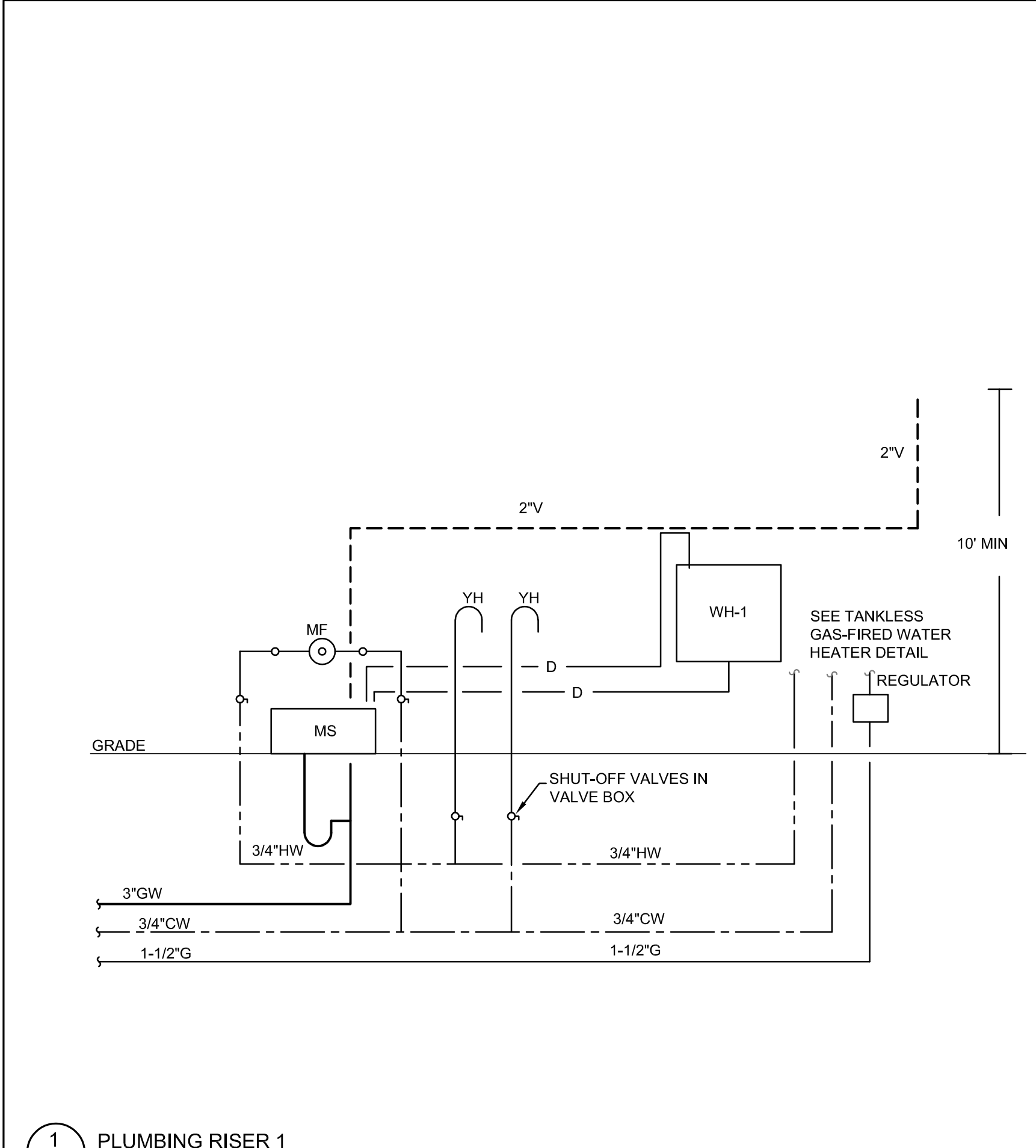
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SHEET NO

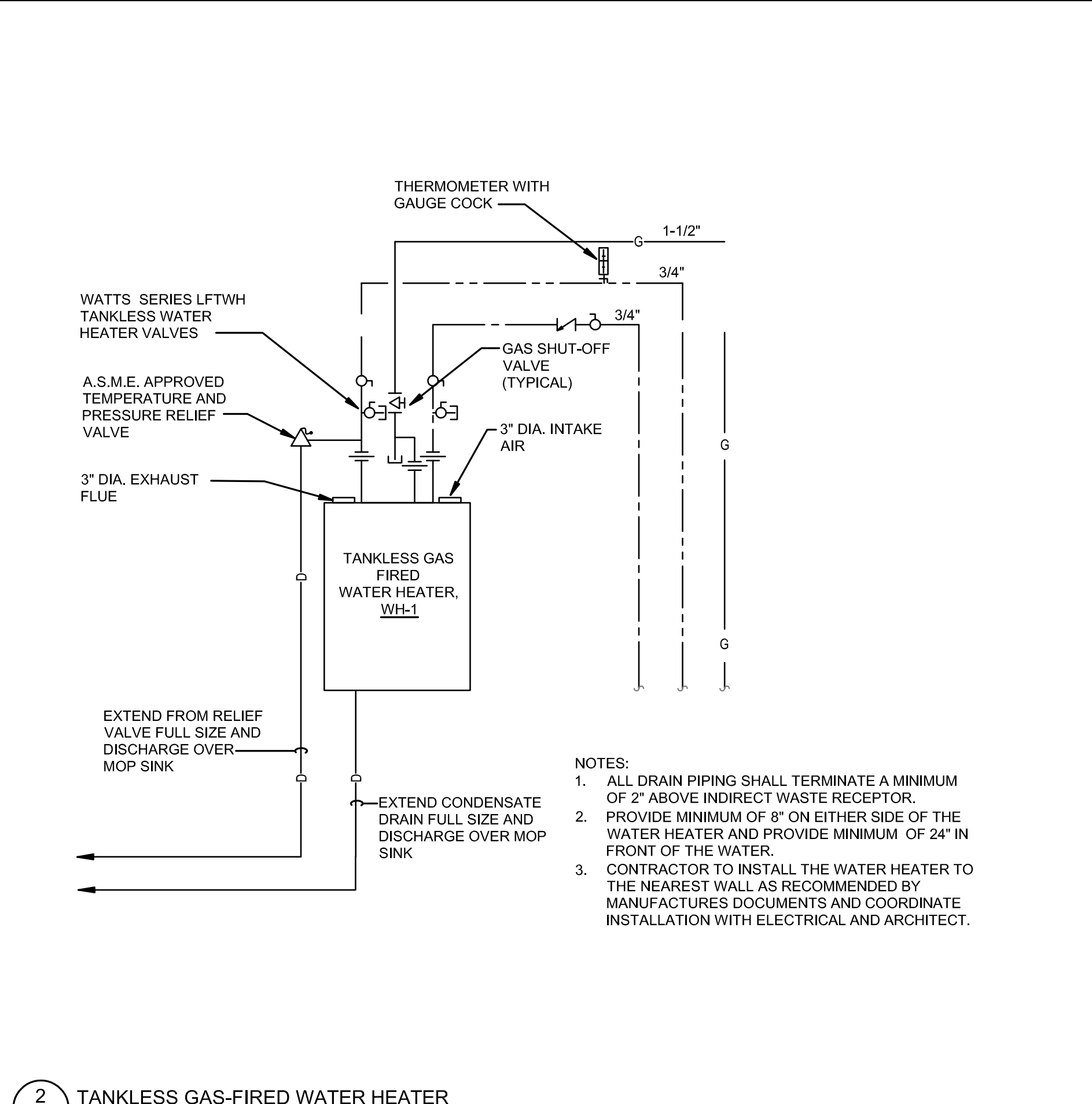
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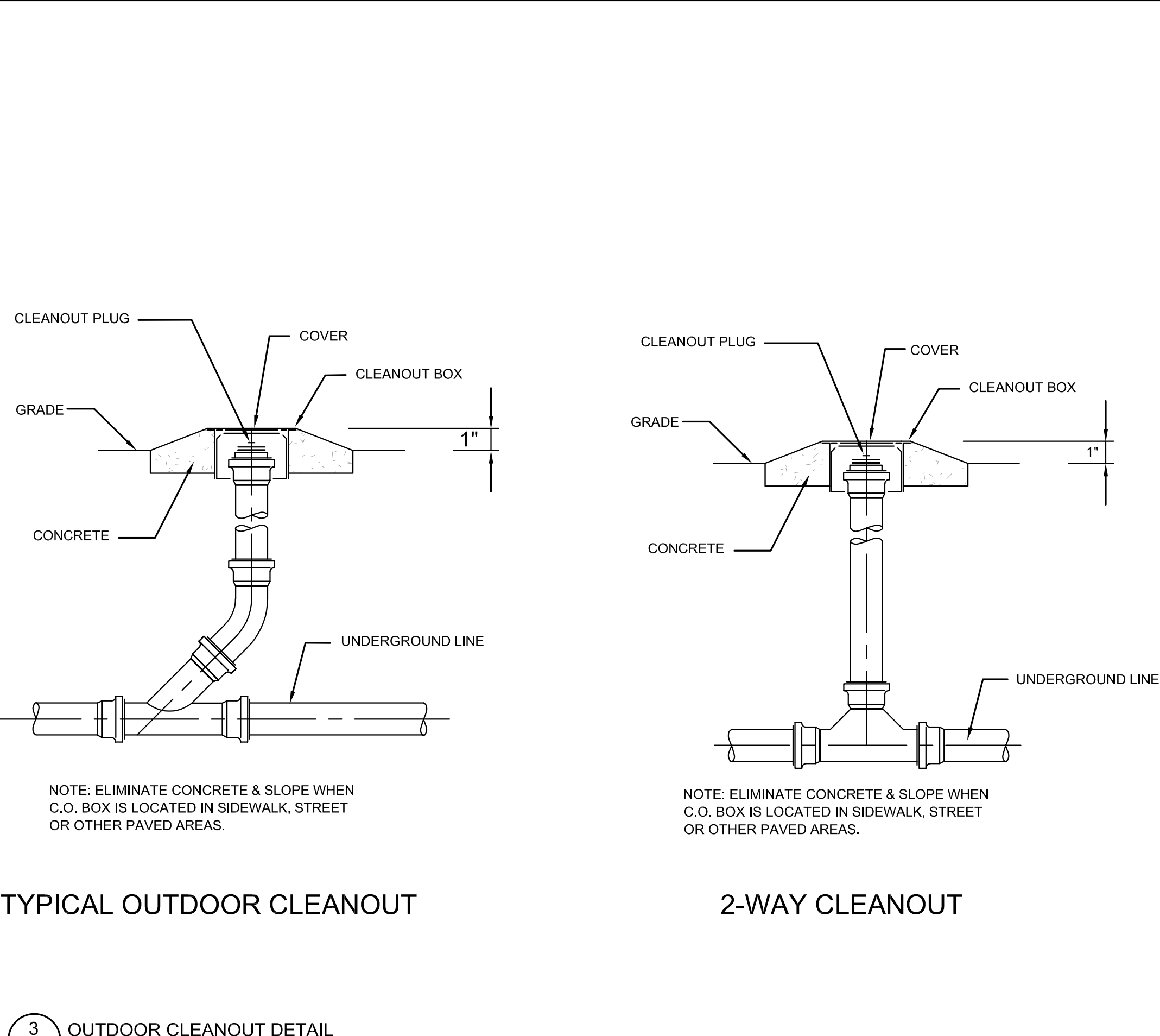




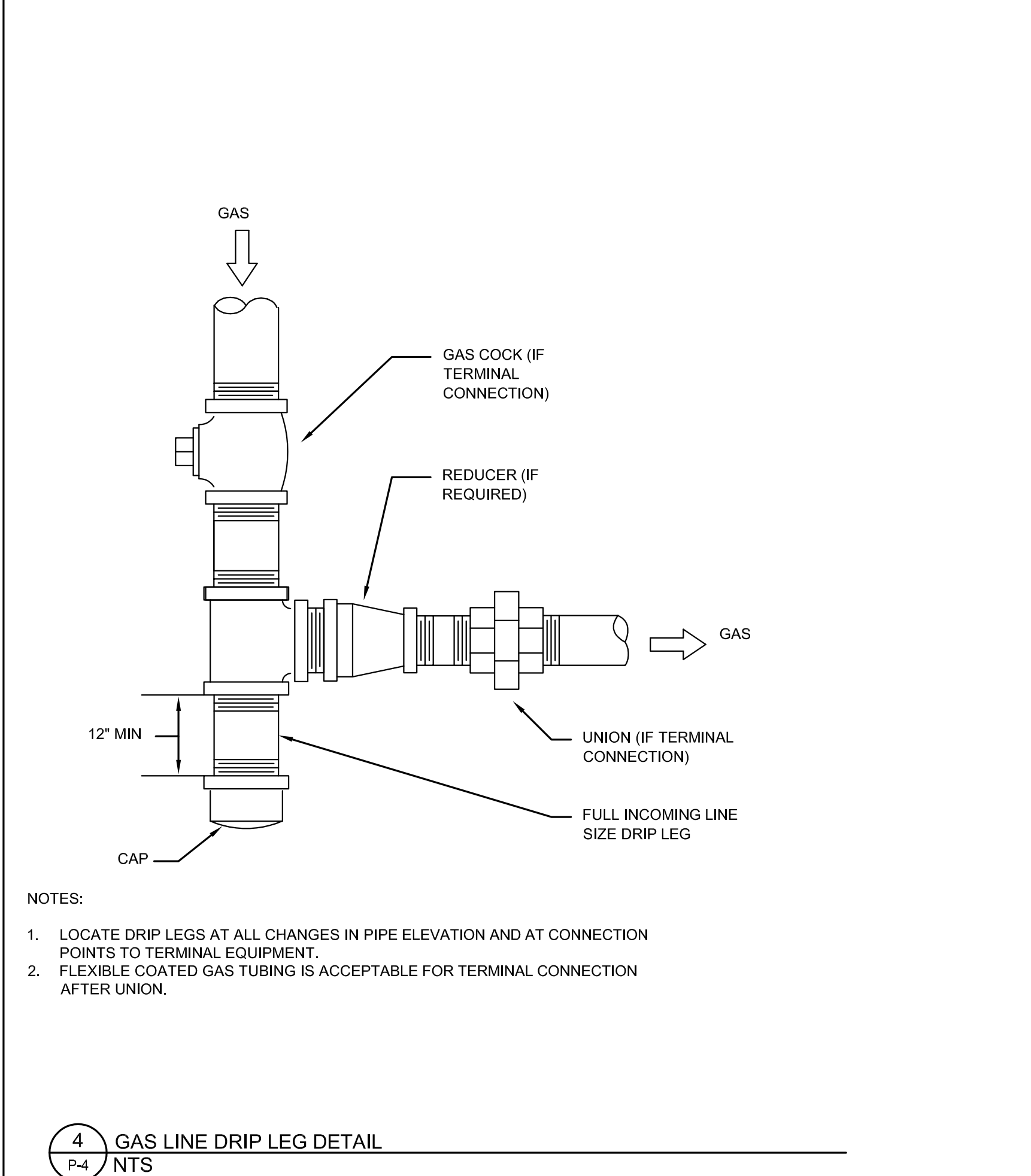
1 PLUMBING RISER 1  
P-4 NTS



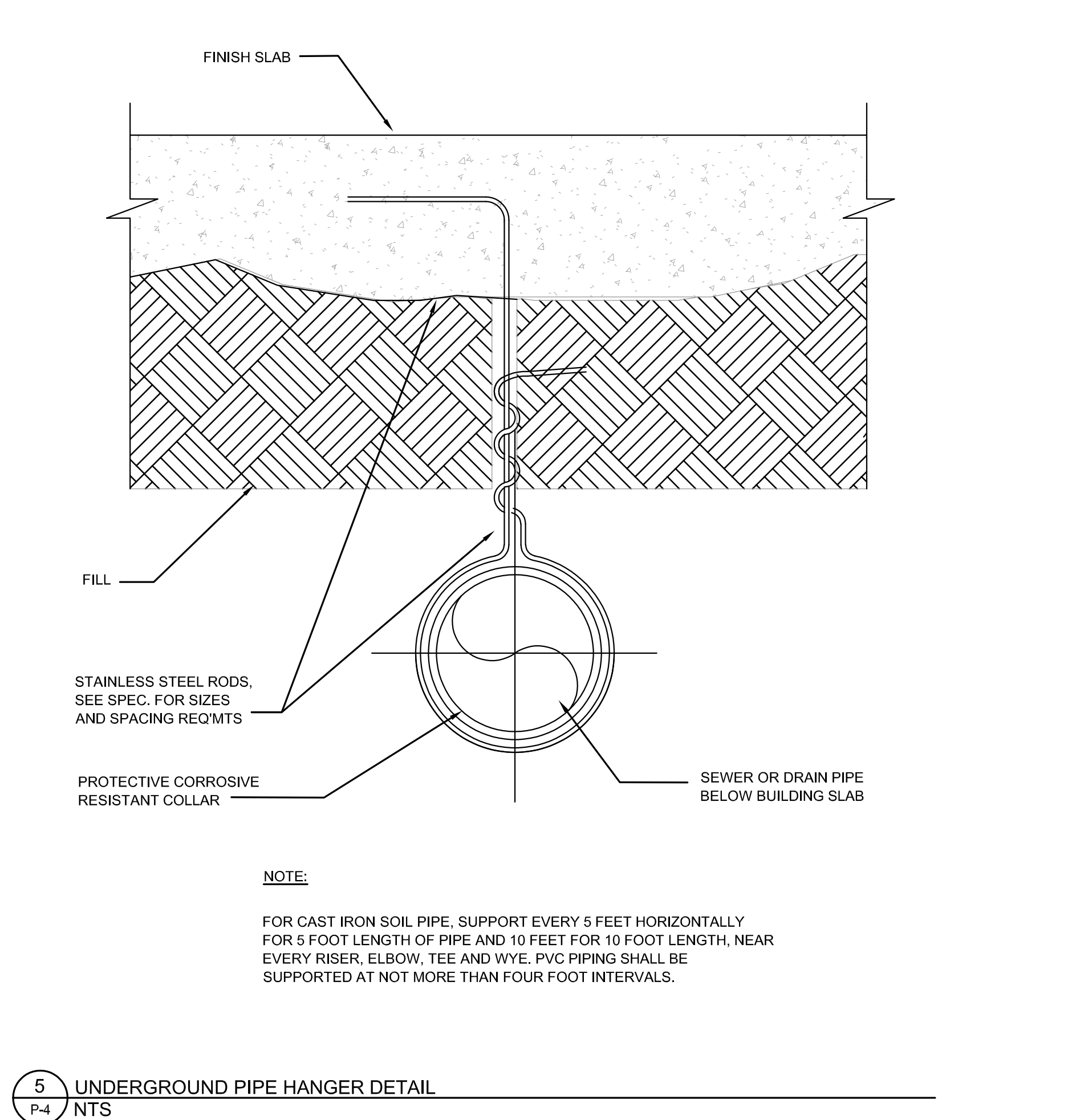
2 TANKLESS GAS-FIRED WATER HEATER  
P-4 NTS



3 OUTDOOR CLEANOUT DETAIL  
P-4 NTS



4 GAS LINE DRIP LEG DETAIL  
P-4 NTS



5 UNDERGROUND PIPE HANGER DETAIL  
P-4 NTS



GENERAL NOTES

WORK PERFORMED SHALL AT A MINIMUM BE IN ACCORDANCE WITH THE LATEST APPLICABLE EDITION ADOPTED BY THE AUTHORITY HAVING JURISDICTION OF THE STANDARDS LISTED BELOW. WHERE THESE SPECIFICATIONS, PLANS, AND NOTES ARE MORE STRINGENT THAN ADOPTED CODE, THEY SHALL TAKE PRECEDENCE. IN CASE OF CONFLICT, OBTAIN A DECISION FROM THE ARCHITECT AND ENGINEER.

- THE NATIONAL ELECTRICAL CODE - NFPA 70 2014 EDITION (NEC)
- ENERGY (OR RESPECTIVE UTILITY PROVIDER)-CUSTOMER INSTALLATION STANDARDS FOR ELECTRIC SERVICE
- APPLICABLE STATE AND LOCAL CODES/ORDINANCES
- IPCEA - INSULATED POWER CABLE ENGINEERS' ASSOCIATION
- NECA 1 - STANDARD PRACTICE OF GOOD WORKMANSHIP IN ELECTRICAL CONSTRUCTION
- INTERNATIONAL BUILDING CODE (IBC)
- NEW ORLEANS AMENDMENTS TO THE IBC

- INCLUDE THE COSTS TO INCORPORATE ALL CODES AND ORDINANCES REQUIRED BY ANY AUTHORITY HAVING JURISDICTION ON THE PROJECT INTO THE BASE BID FOR THE PROJECT. NO ADDITIONAL FUNDS WILL BE ALLOCATED FOR WORK TO CONFORM TO REGULATIONS AND REQUIREMENTS AND/OR TO OBTAIN APPROVAL OF WORK.

- THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL.

- IF A CONFLICT OCCURS BETWEEN DRAWINGS, SPECIFICATIONS, AND/OR NOTES BID THE GREATER QUANTITY AND/OR QUALITY.

- ELECTRICAL EQUIPMENT AND COMPONENTS SHALL BE AT A MINIMUM ELEVATED ABOVE BASE FLOOD ELEVATION OR THREE FEET ABOVE THE HIGHEST ADJACENT CURB AND STREET CENTERLINE, WHICHEVER IS HIGHER. ABIDE BY THE NEW ORLEANS AMENDMENTS TO THE IBC SECTION 2735(A), FEMA GUIDELINES & REGULATIONS, AND THE NATIONAL FLOOD INSURANCE PROGRAM (NFIP) GUIDELINES & REGULATIONS.

- COMPLETELY BOND AND GROUND ENTIRE ELECTRICAL SYSTEM IN ACCORDANCE WITH THE CURRENT NEC ARTICLE 250 IN ITS ENTIRETY.

- DRAWINGS ARE DIAGRAMMATICAL. ALL ELECTRICAL EQUIPMENT LOCATIONS ARE APPROXIMATE ONLY. FOR ALL MEASUREMENTS, USE FIELD SURVEYS. COORDINATE WITH ALL OTHER TRADES. LAYOUT OF EQUIPMENT, ACCESSORIES, SPECIALTIES, WIRING AND CONDUIT SYSTEMS ARE STRICTLY DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED, AND DO NOT INDICATE EVERY REQUIRED FITTING, ELBOW, TRANSITION, JUNCTION BOX OR SIMILAR ITEMS THAT ARE REQUIRED FOR A COMPLETE INSTALLATION.

- PRIOR TO ROUGHING-IN ANY WIRING OR DEVICES, CONFIRM EXACT LOCATIONS WITH OWNER.

- UNLESS NOTED OTHERWISE A WARRANTY PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF FINAL COMPLETION OF THE PROJECT SHALL APPLY TO ALL ELECTRICAL EQUIPMENT FURNISHED AND TO ANY ELECTRICAL WORK FURNISHED UNDER THESE SPECIFICATIONS. CONTRACTOR SHALL REPAIR OR REPLACE ANY DEFECTS IN WORKMANSHIP, DESIGN OR MATERIALS AT HIS OWN EXPENSE. WARRANTY WORK SHALL BE PERFORMED WITHIN A REASONABLE TIMEFRAME AS SOON AS POSSIBLE AFTER THE DISCREPANCY IS NOTICED.

- CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH GENERAL CONTRACTOR ON THE APPLICATION FOR PERMIT AND REMITTANCE OF ALL FEES. IN ADDITION, CONTRACTOR TO PROVIDE FINAL INSPECTION CERTIFICATE.

- SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL TO ARCHITECT PRIOR TO CONSTRUCTION FOR ALL ELECTRICAL EQUIPMENT.

- CONTRACTOR SHALL VISIT THE SITE OF THE PROPOSED WORK TO UNDERSTAND THE COMPLEXITY, RESTRICTIONS, AND ALL THE REQUIREMENTS TO PERFORM WORK OF THESE DOCUMENTS IN SAID FACILITY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED TO THE SUCCESSFUL BIDDER FOR FAILURE TO BE SO INFORMED.

- CONTRACTOR SHALL CONTINUOUSLY MAINTAIN ADEQUATE PROTECTION OF STORED MATERIALS AND INSTALLED WORK. ALL FIXTURES AND EQUIPMENT SHALL BE TIGHTLY COVERED WITH SHEET POLYETHYLENE OR WATERPROOF TARPULIN AND PROTECTED AGAINST DIRT, RUST, MOISTURE, CHEMICAL AND MECHANICAL INJURY REGARDLESS OF LOCATION. MATERIALS SHALL NOT BE STORED DIRECTLY ON EARTH OR IN AREAS WHERE THEY WILL BE SUBJECT TO PHYSICAL INJURY FROM VEHICLE TRAFFIC OR CONSTRUCTION EQUIPMENT. CONDUIT OPENINGS SHALL BE CAPPED OR PLUGGED DURING INSTALLATION. KEEP STOCK OF MATERIAL AND EQUIPMENT STORED ON THE PREMISES IN A NEAT AND ORDERLY MANNER.

- AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL REMOVE ALL DEBRIS, SURPLUS MATERIALS OR FOREIGN MATTER CAUSED BY THE PERFORMANCE OF ELECTRICAL WORK ON THE PREMISES. UPON COMPLETION OF THE WORK THE CONTRACTOR SHALL BE RESPONSIBLE FOR LEAVING THE PREMISES IN A CLEAN CONDITION.

- NO INSTALLATION WILL BE CONSIDERED COMPLETE UNTIL THE PROPER OPERATION OF ALL ELECTRICAL EQUIPMENT HAS BEEN DEMONSTRATED TO THE SATISFACTORY OF THE OWNER OR ITS AUTHORIZED REPRESENTATIVE. ALSO, ANY RECORD DRAWINGS, BOOKS NECESSARY TO MAINTAIN OR REPLACE ANY CONTRACTOR SUPPLIED MATERIAL SHALL BE COMPILED AND PRESENTED TO THE OWNER IN A FORM SUITABLE FOR REPRODUCTION.

- ALL BRANCH CIRCUITRY INSTALLATION AND LOADING SHALL COMPLY WITH THE NEC.

- WHERE NEW LIGHTS, RECEPTACLES, OR OTHER DEVICES/EQUIPMENT ARE DESIGNATED TO BE CONNECTED TO AN EXISTING CIRCUIT, CONTRACTOR SHALL TRACE EXISTING CIRCUIT TO DETERMINE CIRCUIT LOADING. THE LOAD ON ANY BRANCH CIRCUIT SHALL NOT EXCEED 80% OF THE CIRCUIT CAPACITY AT ANY POINT DURING A NORMAL WORKING DAY FOR THE FACILITY. WHERE THIS CANNOT BE ACHIEVED, CONTRACTOR SHALL CONTACT THE ENGINEER FOR ALTERNATIVE CIRCUITING INSTRUCTIONS.

- NFPA 70 DEFINITIONS  
OUTLET: A POINT ON THE WIRING SYSTEM AT WHICH CURRENT IS TAKEN TO SUPPLY UTILIZATION EQUIPMENT.  
RECEPTACLE: A CONTACT DEVICE INSTALLED AT THE OUTLET FOR THE CONNECTION OF AN ATTACHMENT PLUG.  
RECEPTACLE OUTLET: AN OUTLET WHERE ONE OR MORE RECEPTACLES ARE INSTALLED.

- WORKMANSHIP TO MEET NECA - 1 GUIDELINES, PUT INTO OPERATION AND TEST ALL ELECTRICAL EQUIPMENT. ALL CIRCUITS SHALL BE TESTED BY CONTRACTOR FOR PROPER VOLTAGE AND PHASE ROTATION; CONTINUITY; PROPER POLARITY; PROPERLY FUNCTIONING GROUND FAULT INTERRUPTERS AND OTHER OUTLETS AND EQUIPMENT; AND FOR ELECTRICAL ISOLATION OF ALL UNGROUNDED CONDUCTORS FROM GROUND AND FROM THE CONDUIT SYSTEM.

- UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR SWITCH OFF ANY ELECTRICAL SERVICE AT ANY POINT IN THE ELECTRICAL DISTRIBUTION SYSTEM OR PERFORM ANY WORK THAT WOULD INTERRUPT OR AFFECT THE NORMAL OPERATIONS OF THE FACILITY, OR TENANT OFFICES, UNLESS OTHERWISE NOTED. ANY WORK INCLUSIVE OF THE ABOVE SHALL BE PERFORMED DURING "OTHER THAN NORMAL HOURS" AT A TIME AND DATE CONVENIENT WITH THE OWNER. THE CONTRACTOR, IN ADVANCE, SHALL PRESENT A METHOD OF PROCEDURE DETAILING THE SCOPE OF WORK AND LENGTH OF TIME TO COMPLETE THE WORK AND A PROPOSED TIME AND DATE. OWNER RETAINS THE RIGHT TO ADJUST THE TIME AND DATE OR CANCEL AN APPROVED SCHEDULE AT NO ADDITIONAL COST.

GENERAL NOTES (POWER)

- INSTALL EQUIPMENT SO THAT CLEAR WORKING SPACE REQUIREMENTS OF THE NEC ARE MET. REFER TO NEC 110.26.
- WHERE CIRCUIT BREAKERS ARE SHOWN TO BE ADDED ON THE PLANS TO PANELBOARDS AND/OR SWITCHBOARDS, CONTRACTOR SHALL FURNISH ALL CIRCUIT BREAKER MOUNTING ACCESSORIES REQUIRED TO INSTALL. VERIFY CONDITONS PRIOR TO BID. PROVIDE OR UPDATE EXISTING TYPEWRITTEN PANELBOARD SCHEDULES TO PANELBOARD DOORS DEPICTING THE FINAL AS-BUILT CONDITIONS AT PROJECT COMPLETION. INDICATE DEVICE AND ROOM NAME LOCATION.

- ALL EXTERIOR RECEPTACLES IN WET LOCATIONS SHALL BE LISTED WEATHER-RESISTANT TYPE, BE GFCI PROTECTED, AND HAVE AN EXTRA DUTY CAST ALUMINUM ENCLOSURE/COVERPLATE THAT IS WEATHERPROOF/WET-WHILE-IN-USE (WITH THE ATTACHMENT PLUG CAP INSERTED OR REMOVED).

- THESE DRAWINGS HAVE BEEN COORDINATED WITH PLUMBING DRAWINGS. ELECTRICAL CONTRACTOR TO COORDINATE FUSE, CIRCUIT BREAKER, WIRE, CONDUIT, DISCONNECT, ETC. SIZES WITH MANUFACTURERS' RECOMMENDATIONS OF EQUIPMENT AND UNITS ACTUALLY INSTALLED AND MODIFY AS NECESSARY TO ACCOMMODATE.

GENERAL NOTES (WIRING METHODS )

- UNLESS OTHERWISE INDICATED, WIRING FOR ALL SYSTEMS CALLED FOR IN THE SPECIFICATIONS AND SHOWN ON DRAWINGS SHALL CONSIST OF SINGLE INSULATED INDIVIDUAL COPPER CONDUCTORS IN METALLIC CONDUIT.

- ALL WIRES SHALL BE COLOR CODED TO COMPLY WITH NEC AND PANELS SHALL BE LABELED TO PROVIDE IDENTIFICATION AS TO CONDUCTOR COLOR CODING.

- PROVIDE SEPARATE INSULATED GREEN EQUIPMENT GROUND CONDUCTOR IN ALL CIRCUITS.

- ALL CONDUCTORS SHALL BE COPPER UNLESS OTHERWISE NOTED. THWN OR THHN #6 AWG AND SMALLER SHALL BE SOLID AND #8 AWG SHALL BE STRANDED. COLOR-CODE CONDUCTORS PER NFPA 70.

- ALL ELECTRICAL POWER TERMINATIONS SHALL BE LISTED FOR 75 DEGREES C UNLESS OTHERWISE NOTED.

- SINGLE PHASE 120V 15A OR 20A BRANCH CIRCUITS WITH UNMARKED CONDUCTOR AMOUNTS AND SIZES SHALL DEFAULT TO 2#12, #12G, 1/2" C.

- RIGID STEEL CONDUIT (GRC) SHALL BE HOT DIPPED GALVANIZED, THREADED, WITH THREADED FITTINGS, INSULATED THROAT CONNECTORS AND BUSHINGS.

- USE CONDUIT AND TUBING FOR RACEWAYS IN THE FOLLOWING LOCATIONS:  
8.1. EXPOSED EXTERIOR LOCATIONS..... GRC  
8.2. WHERE SUBJECT TO DAMAGE..... GRC

- TYPE NM (NONMETALLIC-SHEATHED) CABLE SHALL NOT BE ALLOWED.

- ALL ELECTRICAL CIRCUITS SHALL BE INSTALLED IN CONDUIT.

- CONDUIT AND TUBING SHALL BE RUN IN STRAIGHT LINES FOLLOWING BUILDING LINES. IN GENERAL BENDS SHALL BE AT 90 DEGREES AND CONDUIT AND TUBING SHALL BE ROUTED PARALLEL AND PERPENDICULAR TO WALLS AND OTHER CONDUITS AND TUBING. GROUP CONDUIT WHERE PRACTICAL. GROUNDED CONDUITS SHALL BE RUN WITH EQUIDISTANT SPACING (DERATE ACCORDING TO NFPA 70 REQUIREMENTS), USE CONDUIT BODIES TO MAKE SHARP CHANGES IN DIRECTION. THE ENTIRE INSTALLATION SHALL BE DONE IN A NEAT AND WORKMAN LIKE MANNER. ROUTING IN EXPOSED AREAS SHALL BE APPROVED BY THE ARCHITECT.

- THE MINIMUM RACEWAY SIZE SHALL BE 1/2 INCH.

- KEEP RACEWAYS AND ENCLOSURES PLUGGED AND CAPPED OR COVERED UNTIL WIRING IS INSTALLED AND FINAL TRIM/COVER IS IN PLACE.

- RACEWAYS AND CABLES MUST BE SECURELY FASTED AND SUPPORTED FROM THE STRUCTURE. ZIP TIES CANNOT BE USED TO SUPPORT RACEWAYS OR CABLES; THEY MAY BE USED TO BUNDLE OR HOLD RACEWAYS OR CABLES ONLY. RACEWAYS AND CABLES MUST BE SUPPORTED AND SECURED BY STAPLES, CABLE TIES, STRAPS, HANGERS, OR SIMILAR FITTINGS UL LISTED FOR THIS PURPOSE. (NFPA 70 SECTION 300.11)

- RACEWAYS MAY NOT BE USED AS A MEANS OF SUPPORT FOR OTHER RACEWAYS OR CABLES (NFPA 70 SECTION 300.11)

- ALL WORK SHALL BE PROPERLY SUPPORTED FROM THE BUILDING STRUCTURE IN AN APPROVED MANNER AND FASTENED TO BUILDING CONSTRUCTION WITH LISTED AND CODE COMPLIANT SUPPORTS.

- PROVIDE EXPANSION AND DEFLECTION FITTINGS FOR CONDUITS CROSSING EXPANSION JOINTS. PROVIDE BONDING JUMPERS FOR ALL EXPANSION FITTINGS.

- OUTLET BOXES SHALL BE 4" SQUARE BY 2 1/8" DEEP (OR LARGER) RING AND COVER FOR GENERAL INTERIOR USE AND CAST METAL TYPE FS OR FD WITH MATCHING WEATHER PROOF SCREW-COVERS FOR EXTERIOR LOCATIONS (GASKETED IN DAMP OR WET LOCATIONS).

- BOXES SHALL BE SIZED PER NFPA 70 AND SUITABLE FOR THE LOCATION INSTALLED.

GENERAL NOTES (DEMOLITION/RENOVATION)

- DRAWINGS INTEND TO SHOW THE EXTENT OF ELECTRICAL DEMOLITION WORK, HOWEVER, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID TO ASCERTAIN LIMITS OF DEMOLITION & CONSTRUCTION; INCLUDE ALL ASSOCIATED COSTS IN THE BID.

- ALL EXISTING ABANDONED WIRING AND CABLING IN AREAS OF DEMOLITION SHALL BE REMOVED BACK TO THEIR SOURCE.

- CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF ALL EXISTING CIRCUITS (CONDUCTORS AND CONDUIT) THAT FEED OTHER AREAS THAT ARE NOT AFFECTED BY DEMOLITION. THIS INCLUDES REROUTING AND/OR REWORKING OF EXISTING CIRCUITS.

- CONTRACTOR IS RESPONSIBLE FOR PROTECTING AND RETAINING AND/OR RE-ESTABLISHING POWER TO ALL EXISTING EQUIPMENT AND DEVICES IN AREAS OF NEW CONSTRUCTION THAT ARE TO REMAIN. THIS INCLUDES REROUTING AND/OR REWORKING OF EXISTING CIRCUITS.

- REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITON AND RENOVATION WORK.

- CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL REMOVED ELECTRICAL DEVICES, UNLESS OTHERWISE DIRECTED BY OWNER.

- OWNER SHALL BE NOTIFIED 2-WEEKS PRIOR TO ANY POWER OUTAGES REQUIRED BY ELECTRICAL.

STANDARD ABBREVIATIONS

A	AMPERES	LCP	LIGHTING CONTROL PANEL
AC	ABOVE COUNTER	LTC	LIGHTING
AF	AMPERE FUSE	MCB	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
AFG	ABOVE FINISHED GRADE	MCM	THOUSAND CIRCULAR MILS
AHJ	AUTHORITY HAVING JURISDICTICION	MDS	MAIN DISTRIBUTION SYSTEM
AHU	AIR HANDLING UNIT	MECH	MECHANICAL
AL	ALUMINUM	MFG	MANUFACTURER
ANN	ANNUNCIATOR	MLO	MAIN LUGS ONLY
ARCH	ARCHITECT	MTD, MTG	MOUNTED, MOUNTING
AT	AMPERE TRIP	MTS	MANUAL TRANSFER SWITCH
ATS	AUTOMATIC TRANSFER SWITCH	MW	MICROWAVE
AWG	AMERICAN WIRE GAUGE	N3R, N4X	NEMA 3R RATED, NEMA 4X RATED
BAS	BUILDING AUTOMATION SYSTEM	N	NEUTRAL
BLDG	BUILDING	NC	NORMALLY CLOSED
C	CONDUIT	NEC	NATIONAL ELECTRIC CODE - NFPA 70
CATV	COMMUNITY ANTENNA TV	NF	NON-FUSED
cd	CANDELA RATING	NIC	NOT IN CONTRACT
CB	CIRCUIT BREAKER	NL	NIGHT LIGHT
CCTV	CLOSED CIRCUIT TELEVISION	NO	NORMALLY OPEN
CL	CENTER LINE	NTS	NOT TO SCALE
CLG	CEILING	Ø, PH	PHASE
COM, COMM	COMMUNICATIONS	P	POLE OR PHASE
CT	CURRENT TRANSFORMER	PA	PUBLIC ADDRESS
CU	COPPER	PB	PULLBOX
dBA	DECIBEL LEVEL	PNL	PANEL
DISC	DISCONNECT	RECEPT, REC	RECEPTACLE
DW	DISHWASHER	REF	REFRIGERATOR
DWG	DRAWING	SPD	SURGE PROTECTIVE DEVICE
EF	EXHAUST FAN	SER	SERVICE ENTRANCE RATED
ELEV	ELEVATOR	SPKR	SPEAKER
EM	EMERGENCY	SWBD	SWITCHBOARD
ER	MAIN EQUIPMENT ROOM	SWGR	SWITCHGEAR
EUH	ELECTRIC UNIT HEATER	TCC	TEACHER CONTROL CENTER STATION
EWG	ELECTRIC WATER COOLER	TEL	TELEPHONE
EX	EXISTING	TR	TELECOMMUNICATIONS ROOM (BRANCH)
FA	FIRE ALARM	TTB	TELECOMMUNICATIONS TERMINAL BOARD
FAA	FIRE ALARM ANNUNCIATOR	TV	TELEVISION
FACP	FIRE ALARM CONTROL PANEL	TYP	TYPICAL
FCU	FAN COIL UNIT	UC	UNDER COUNTER
FLA	FULL LOAD AMPS	UON	UNLESS OTHERWISE NOTED
FLR	FLOOR	UPS	UNINTERRUPTIBLE POWER SUPPLY
G, GND	GROUND	V	VOLTS
GFI, GFCI	GROUND FAULT CIRCUIT INTERRUPTER	VA	VOLT-AMP
HOA	HAND-OFF-AUTOMATIC	VAV	VARIABLE AIR VOLUME BOX
HP	HORSEPOWER	VFD	VARIABLE FREQUENCY DRIVE
HWCP	HOT WATER CIRCULATION PUMP	W	WATTS, WIRES
IG	ISOLATED GROUND	W/	WITH
JB	JUNCTION BOX	W/O	WITHOUT
KAIC	THOUSAND AMPERES INTERRUPTION CAPACITY	WH	WATER HEATER
KCM, KCMIL	THOUSAND CIRCULAR MILS	WAP	WIRELESS ACCESS POINT
KV	KILOVOLT	WP	WEATHERPROOF
KVA	KILO VOLT-AMPERE	TRANSF, XFMR	TRANSFORMER
KW	KILO WATT	XFR	TRANSFER
LC	LIGHTING CONTACTOR		

NOTE: SOME ABBREVIATIONS MAY NOT BE USED.

ELECTRICAL SYMBOLS

(CONTINUED)

NOTES:

- THIS IS A TYPICAL SCHEDULE, SOME SYMBOLS MAY NOT BE USED.
- ALL OUTLETS AND ELECTRICAL EQUIPMENT ARE SHOWN APPROXIMATELY LOCATED. FOR ALL MEASUREMENTS USE ARCHITECTURAL PLANS.

SYMBOL	DESCRIPTION
	SURFACE, RECESSED, OR WALL MOUNTED LIGHTING FIXTURE
	CONNECTED TO NORMAL BRANCH CIRCUIT
	SURFACE MOUNTED JUNCTION BOX WITH COVER, SIZE PER NEC
	EXTERIOR RATED SNAP SWITCH WITH WEATHER RESISTANT GASKETED COVER
	WET LOCATION QUAD GFCI RECEPTACLE WITH LOCKABLE, EXTRA-DUTY, CAST ALUMINUM, WET-WHILE-IN-USE COVER

Perez

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INTERIORS  
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909 PONDRAIS STREET, SUITE 2150  
NEW ORLEANS, LOUISIANA 70112-1034  
TEL. 504-586-1725  
FAX 855-327-4815

North Peters Street Dumpster Area Improvements

New Orleans, Louisiana 70116

Construction Documents

DATE: 2021-01-05  
PROJECT NO.: 01-14-1034-05

REVISIONS:

No.	Date	Description

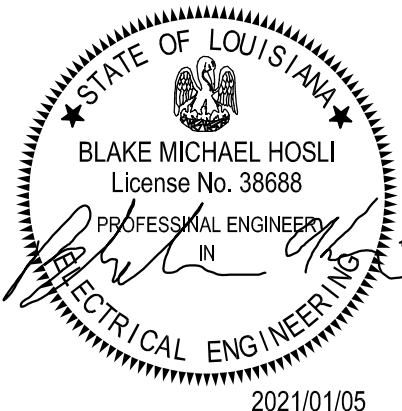
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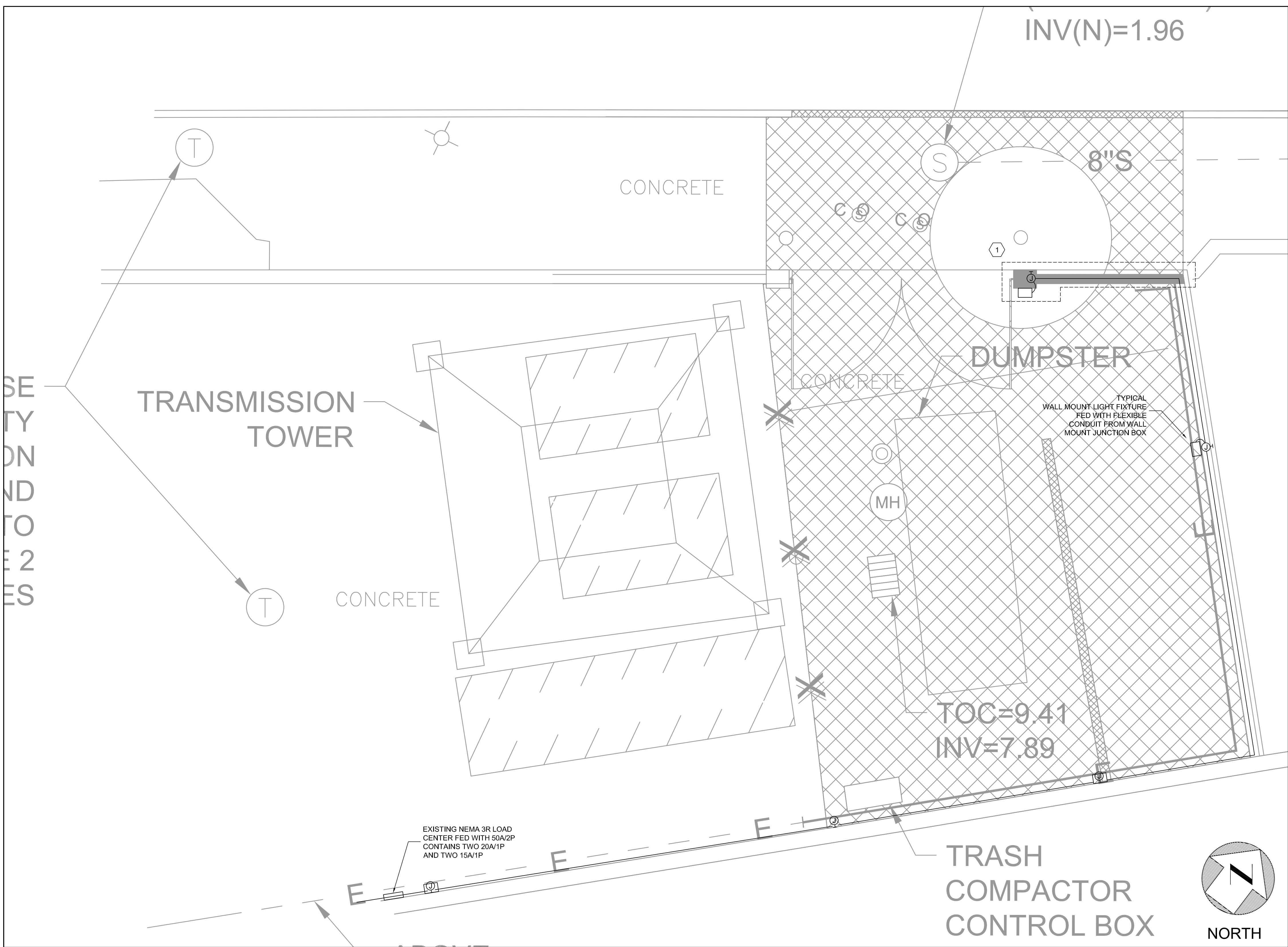
ELECTRICAL  
SPECIFICATIONS  
& NOTES

SHEET NO

E-0







**ELECTRICAL DEMOLITION PLAN**  
SCALE: 1/4" = 1'-0"

**GENERAL NOTES:**

1. ELECTRICAL OBJECTS TO BE DEMOLISHED ARE NOTED AS SUCH.

**SPECIFIC NOTES:**

1. AREA OF WALL TO BE DEMOLISHED AND REBUILT. LIGHT FIXTURE, JUNCTION BOX, AND ASSOCIATED CONDUIT ARE TO BE RECONFIGURED AND RELOCATED DUE TO WALL CHANGE. REFER TO NEW WORK PLAN.

**Perez**

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DATE: 2021-01-05  
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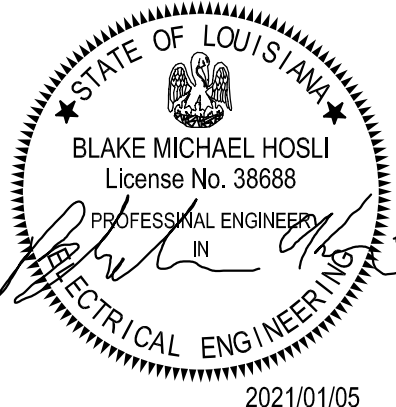
REVISIONS:		
No.	Date	Description

DRAWN BY: BH  
CHECKED BY: BH

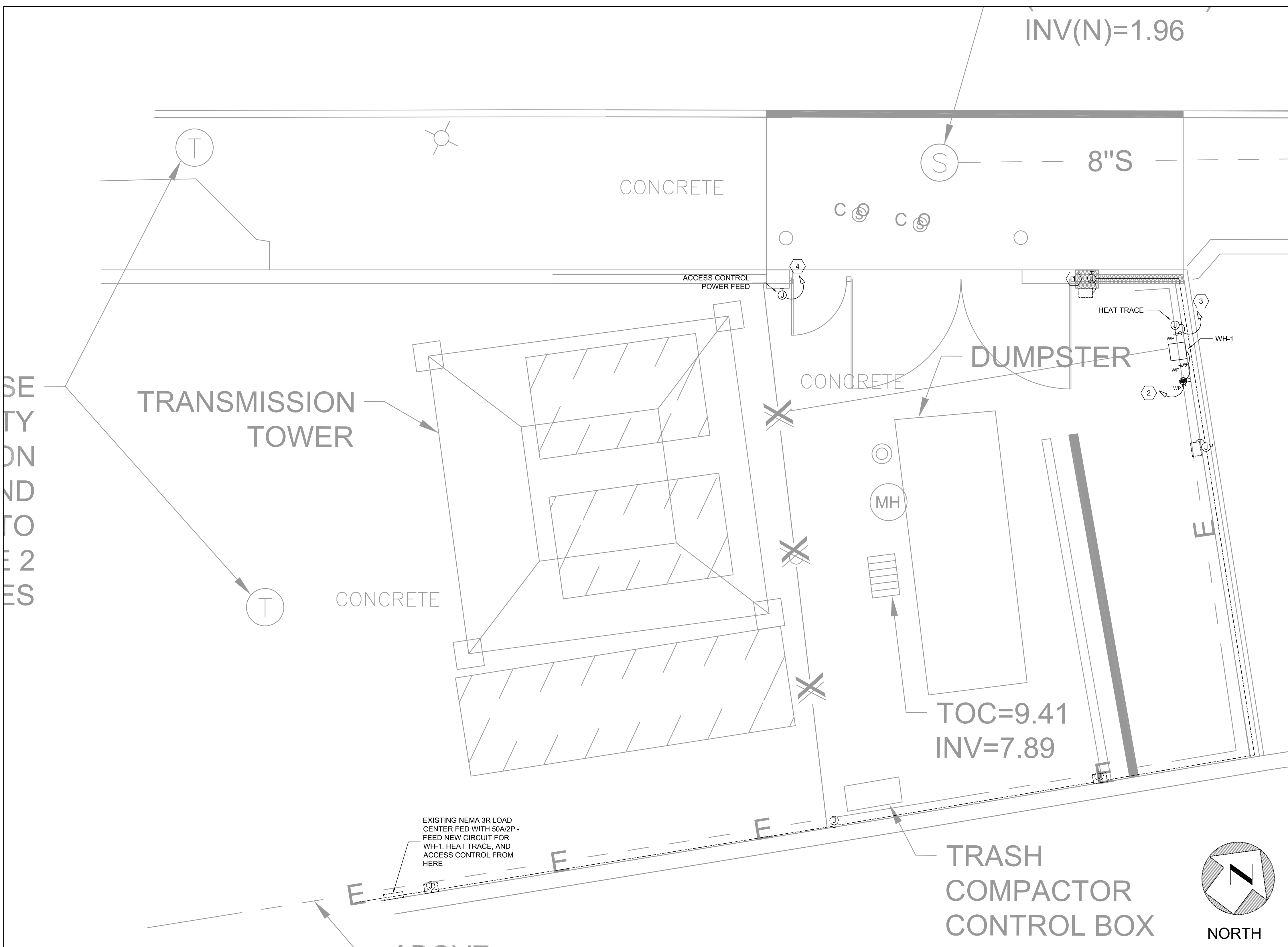
SHEET TITLE  
**ELECTRICAL  
DEMOLITION  
PLAN**

SHEET NO

**E-1**







ELECTRICAL NEW WORK PLAN  
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. DASHED OBJECTS ARE EXISTING TO REMAIN OR AS NOTED.

SPECIFIC NOTES:

1. LIGHT FIXTURE, JUNCTION BOX AND SECTION OF CONDUIT TO BE RELOCATED DUE TO WALL CHANGE. REFER TO DEMOLITION PLAN.
2. FEED FROM A NEW 15A/1P CIRCUIT BREAKER IN EXISTING NEMA 3R LOAD CENTER SHOWN ON PLANS WITH 2#10,#10G. ROUTE AND SUPPORT CONDUIT ALONG WALL FOLLOWING EXISTING CONDUIT FOR WALL MOUNT LIGHTING. WP SWITCH FOR HEAT TRACING LOCAL DISCONNECTING MEANS. MAKE FINAL ELECTRICAL CONNECTIONS TO WH-1 WITH #10 CONDUCTORS IN EXTERIOR RATED FLEXIBLE NON-METALLIC CONDUIT.
3. FEED FROM A NEW 20A/1P CIRCUIT BREAKER IN EXISTING NEMA 3R LOAD CENTER SHOWN ON PLANS WITH 2#10,#10G. ROUTE AND SUPPORT CONDUIT ALONG WALL FOLLOWING EXISTING CONDUIT FOR WALL MOUNT LIGHTING. WP SWITCH FOR HEAT TRACING LOCAL DISCONNECTING MEANS. MAKE FINAL ELECTRICAL CONNECTIONS TO HEAT TRACING CONTROLLER.
4. FEED FROM A NEW 20A/1P CIRCUIT BREAKER IN EXISTING NEMA 3R LOAD CENTER SHOWN ON PLANS WITH 2#10,#10G. ROUTE AND SUPPORT CONDUIT ALONG WALL FOLLOWING EXISTING CONDUIT FOR WALL MOUNT LIGHTING AS AVAILABLE. MAKE FINAL ELECTRICAL CONNECTIONS TO ACCESS CONTROL POWER EQUIPMENT AS NECESSARY. COORDINATE WITH ACCESS CONTROL SYSTEM VENDOR FOR EXACT LOCATIONS AND PROVIDE A PROPERLY RATED EXTERIOR ENCLOSURE FOR ACCESS CONTROL SYSTEM POWER SUPPLY.

Perez

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New Orleans, Louisiana 70116

Construction Documents

DATE: 2021-01-05

PROJECT NO.: 01-14-1034-05

REVISIONS:

No.	Date	Description

DRAWN BY: BH

CHECKED BY: BH

SHEET TITLE

ELECTRICAL  
NEW WORK PLAN

SHEET NO

E-2

STATE OF LOUISIANA

BLAKE MICHAEL HOSLI

License No. 38688

PROFESSIONAL ENGINEER

IN

ELECTRICAL ENGINEERING

2021/01/05



## Joseph A. Colón

---

**From:** Valerie Goines  
**Sent:** Thursday, January 14, 2021 11:16 AM  
**To:** Brandon Adams  
**Cc:** Leslie T. Alley; rgurtner@frenchmarket.org; Karri Maggio  
**Subject:** RE: North Peters Street Dumpster Area Improvements project for DAC review  
**Attachments:** Invoice 21-0030.pdf

Good morning. The City Planning Commission staff is in receipt of the Design Review application for 1008 N. Peters Street. Please find the attached invoice and payment instructions below.

### **Payment Option 1: Online (preferred)**

**\*\*\*Note there is a 2.45% convenience fee.\*\*\***

You must be **logged in** to pay online – you can't see the Pay Fee link as a "guest":

1. Visit <https://onestopapp.nola.gov/Search.aspx>
2. Search your case address in the search bar.
3. Once the results populate, look for the corresponding case.

\*Note: you may filter to "Projects" only

4. Click "Pay Fees"
5. Enter your credit card information and select "Pay Now."
6. Respond to this email confirming you have paid online.

### **Payment Option 2: Mail a check**

1. Make a check payable to: "City of New Orleans" for the invoiced amount.
2. Please include a copy of the invoice with the payment (if that is not possible, please note the property address in the memo line of the check).
3. Mail the check to:

### **City Planning Commission**

c/o Robert Rivers  
1300 Perdido Street  
7<sup>th</sup> Floor  
New Orleans, LA 70112

### **Valerie Goines**

City Planner | New Orleans City Planning Commission  
Office of Business and External Services  
1300 Perdido Street, 7th Floor | New Orleans, LA 70112  
(504) 658-7006 (forwarded to personal cell phone) | [valerie.goines@nola.gov](mailto:valerie.goines@nola.gov)

**Please be advised that all email correspondence is subject to the state's public records laws.**

### **RESOURCES:**

[Application forms](#)



[Property Viewer](#) (check the zoning of a property)

[Comprehensive Zoning Ordinance](#)

[One Stop App](#)

**COVID-19:**

In an effort to prevent the spread of COVID-19 to our employees and members of the public, our staff is working remotely and will not have any face to face contact with members of the public. Staff is available from 8am to 5pm to assist the public by phone or email. More information about our remote operations can be found at [nola.gov/cpc](https://nola.gov/cpc).

---

**From:** Chanta  HR. Barr  <[chantae.barre@nola.gov](mailto:chantae.barre@nola.gov)>

**Sent:** Wednesday, January 13, 2021 5:38 PM

**To:** Valerie Goines <[Valerie.Goines@nola.gov](mailto:Valerie.Goines@nola.gov)>

**Cc:** Leslie T. Alley <[LTAlley@frenchmarket.org](mailto:LTAlley@frenchmarket.org)>; [rgurtner@frenchmarket.org](mailto:rgurtner@frenchmarket.org); Karri Maggio <[kmaggio@e-perez.com](mailto:kmaggio@e-perez.com)>;  
Brandon Adams <[badams@e-perez.com](mailto:badams@e-perez.com)>

**Subject:** Re: North Peters Street Dumpster Area Improvements project for DAC review

Planner on duty.

---

**From:** Brandon Adams <[badams@e-perez.com](mailto:badams@e-perez.com)>

**Sent:** Wednesday, January 13, 2021 4:14 PM

**To:** CPCINFO <[CPCINFO@nola.gov](mailto:CPCINFO@nola.gov)>

**Cc:** Leslie T. Alley <[LTAlley@frenchmarket.org](mailto:LTAlley@frenchmarket.org)>; [rgurtner@frenchmarket.org](mailto:rgurtner@frenchmarket.org) <[rgurtner@frenchmarket.org](mailto:rgurtner@frenchmarket.org)>; Karri Maggio <[kmaggio@e-perez.com](mailto:kmaggio@e-perez.com)>

**Subject:** North Peters Street Dumpster Area Improvements project for DAC review

**EMAIL FROM EXTERNAL SENDER: DO NOT click links, or open attachments, if sender is unknown, or the message seems suspicious in any way. DO NOT provide your user ID or password. If you believe that this is a phishing attempt please forward this message to [phishing@nola.gov](mailto:phishing@nola.gov)**

Attached are the completed application form, drawings and existing photographs for the DAC review of the North Peters Street Dumpster Area Improvements project.

Please let me know if we can provide any additional information.

Thank you

---

**BRANDON ADAMS, PLA**  
Landscape Architect

**PEREZ, A PROFESSIONAL CORPORATION**  
*Design Build Develop*

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GOVERNOR NICHOLS STREET

K  
E  
A  
C  
H











